# AMERICAN RAILROAD JOURNAL.

# AND GENERAL ADVERTISER

FOR RAILROADS, CANALS, STEAMBOATS, MACHINERY,

AND MINES.





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SECOND QUARTO SERIES, VOL. II., No. 18.j

SATURDAY, MAY 2, 1846.

[WHOLE No. 514, Vol. XIX.

BOSTON AND PROVIDENCE RAIL-road. Passenger Notice. Summer Arrange-

ment. On and after Mon-day, April 6, 1846, the Passenger Trains will run as follows:

For New York-Night Line, via Stonington.

For New York—Night Line, via Stonington. Leaves Boston every day, but Sunday, at 5 p.m. Accommodation Trains, leave Boston at 7½ a.m. and 4 p.m., and Providence at 8 a.m. and 4½ p.m. Dedham trains, leave Boston at 8 a.m. 12½ m., 3½ p.m., and 6½ p.m. Leave Dedham at 7 a.m. and 9½ a.m. and 2½ and 5½ p.m. Stoughton trains, leave Boston at 11½ a.m. and 5½ p.m. Leave Stoughton at 7.20 a.m. and 3½ p.m. All baggage at the risk of the owners thereof.

31 ly W. RAYMOND LEE, Sup't.

BRANCH RAILROAD and STAGES CONneeting with the Boston and Providence Railroad.
Stages connect with the Accommodation trains at
the Foxbero' Station, to and from Woonsocket. At

the Festpero station, to and from Woonsocket. At the Seekonk Station, to and from Lonsdale, R. I. via Pawtucket. At the Sharon Station, to and from Walpole, Mass. And at Dedham Village Station, to and from Medford, via Medway, Mass. At Providence, to and from Bristol, via Warren, R. I.—Taunton, New Bedford and Fall River cars run in connection with the accommedation trains. connection with the accommodation trains.

NORWICH AND WORCESTER RAIL-Road. Summer Arrangement, commencing

Monday, April 6, 1846. Accommodation Trains, daily, except Sunday. Leave Norwich, at 6 a.m., and 4 p.m. Leave Worcester, at 10 a.m., and 4 p.m.

The morning Accommodation Trains from Norwich, and from Worcester, connect with the trains of the Boston, and Worcester and Western railroads each way.

The Evening Accommodation Train from Worster connects with the 14 p.m. train from Boston. New York Train via Long Island Railroad:

Leave Allyn's Point for Boston, about I p.m., dai-

Leave Allyn's Point for Boston, about 1 p.m., uarly, except Sunday.
Leave Worcester for New York, about 10 a.m., stopping at Webster, Danielsonville, and Norwich. New York Train via Steamboat—Leave Norwich for Boston, every morning, except Monday, on the arrival of the stamboat from New York, stopping at Norwich and Danielsonville.

Leave Worcester for New York, upon the arrival of the train from Boston, at about 41 p.m., daily, except Sunday, stopping at Webster, Danielsonville and Norwich.

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14

Freight Trains daily each way, except Sunday.— Special contracts will be made for cargoes, or large quanties of freight, on application to the superinten-

Furet are Less when paid for Tickets than when said in the Cars. It J. W. STOWELL, Sup't.

BOSTON AND MAINE RAILROAD. Upper Route, Boston to Portland via, Reading, Andover, Haverhill, Exeter, Do-Andover, Havernill, Excier, Do-

Berwick, Wells, Kennebunk and Saco.

Summer Arrangement, 1846.
On and after April 13, 1846, Passenger Trains will leave daily, (Sundays excepted,) as follows:
Boston for Portland at 7½ a.m. and 2½ p.m.
Boston for Great Falls at 7½ a.m., 2½ and 4½ p.m.
Boston for Haverhill at 7½ and 11½ a.m., 2½, 4½ and

p.m. Boston for Reading at 74, 9, and 114 a.m., 24, 44,

and 8 p.m.
Portland for Boston at 74 a.m., and 3 p.m.
Creat Falls for Boston at 64 and 94 a.m., and 41

Haverhill for Boston at 61, 81, and 11 a.m., and

A and 6 p.m.

Reading for Boston at 6 p. 7 p. and 9 p.m., 12 m.,
1 p. 5 and 7 p.m.

The Depot in Boston is on Haymarket Square.

Passengers are not allowed to carry Baggage above \$60 in value, and that personal Baggage, unless notice is given, and an extra amount paid, at the rate of the price of a Ticket for every \$500 additional value. CHAS. MINOT, Super'i.

GUSTA to ATLANTA-171 MILES.

AND WESTERN AND ATLANTIC RAILROAD FROM AT-LANTA TO OOTHCALOGA, 80 MILES.

This Road in connection with This Road in connection with the South Carolina Railroad and Western and Atlantic Railroad now forms a con-tinuous line, 388 miles in length, from Charleston to Oothcaloga on the Oostenania River, in Cass Co.

Rates of Freight, and Passage from Augusta to Ooth caloga.
On Boxes of Hats, Bonnets, and Furniture

Passengers \$10:50; children under 12 years of age half price.

Passengers to Atlanta, head of Ga. Railroad, \$7. German or other emigrants, in lots of 20 or more, will te carried over the above roads at 2 cents

Goods consigned to S. C. Railroad Co. will be forwarded free of commissions. Freight may be paid at Augusta, Atlanta, or Oothcaloga.

J. EDGAR THOMSON,

Ch. Eng. and Gen. Agent. Augusta, Oct. 21 1845.

SUMMER ARRANGEMENT.—NEW YORK AND ERIE RAILROAD LINE, from April 1st until further notice, will run daily (Sundays excepted) between the city of New York and Middletown,

Goshen, and intermediate places, as follows: FOR PASSENGERS

Leave New York at 7 A. M. and 4 P. M.

"Middletown at 61 A. M. and 51 P. M.
FARE REDUCED to \$1 25 to Middletown—way

proportion. Breakfast, supper and berths can be had on the steamboat.

Leave New York at 5 P. M.

Middletown at 12 M.

The names of the consignee and of the station where to be left, must be distinctly marked upon each article shipped. Freight not received after 5 P. M. in New York.

Apply to J. F. Clarkson, agent, at office corner of Duane and West sts.

H. C. SEYMOUR, Sup't.

March 25th, 1846.

Stages run daily from Middletown, on the arrival of the afternoon train, to Millord, Carbondale, Honesdale, Montrose, Towanda, Owego, and West; also to Monticello, Windsor, Binghamton, Ithaca, etc., etc. Agent on board.

BALTIMORE AND OHIO RAILROAD.

MAIN STEM. The Train carrying the
Great Western Mail leaves Bal-

timore every morning at 71 and Cumberland at 8 o'clock, passing Ellicot's Milla, Frederick, Harpers Ferry, Martinsburgh and Hancock, conneting daily each way with—the Washington Trains at the Relay House seven miles from Baltimore, with the Winchester Trains at Harpers Ferry — with the various railroad and steamboat lines between Baltimore and Philadelphia and with the lines of Post Coaches between Cumand with the lines of Post Coaches between Cumberland and Wheeling and the fine Steamboats on the Monongahela Slack Water between Brownsville and Pittsburgh. Time of arrival at both Cumberland and Baltimore 51 P. M. Fare between those points \$7, and 4 cents per mile for less distances. Fare through to Wheeling \$11 and time about 36 hours, to Pittsburgh \$10, and time about 32 hours. Through tickets from Philadelphia to Wheeling \$13, to Pittsburgh \$12. Extra train daily except Sundays from Baltimore to Frederick at 4 P. M., and from Frederick to Baltimore at 8 A. M.

WASHINGTON BRANCH.

Daily trains at 9 A. M. and 5 P. M. and 19 at night from Baltimore and at 6 A. M. and 5 P. M. from Washington, connecting daily with the lines North, South and West, at Baltimore, Washington and the Relay house. Fare \$1 60 through between Baltimore and Washington, in either direction, 4 cents per mile for intermediate distances.

274 BALTIMORE AND SUSQUEHANNA Railroad. The Passenger train runs daily except Sunday, as follows: except Sunday, as follows:

Leaves Baltimore at 9 a.m., and arrives at 61 p.m. Arrives at York at 121 p.m., and leaves for Columbia at 11 p.m. Leaves Columbia at 22 p.m., and leaves York for Baltimore at 3 p.m. Fare to York \$2. Wrightsville \$2 50, and Columbia \$2 621. The train connects at York with stages for Harrisburg, Gettysburg, Chambersburg, Pittsburg and York Springs.

Fare to Pittsburg. The company is authorized by the proprietors of Passenger lines on the Pennsylvania improvements, to receive the fare for the whole distance from Baltimore to Pittsburg. Baltimore to Pittsburg.—Fare through, \$9 and \$10.

Afternoon train. This train leaves the ticket office daily, Sundays excepted, at 31 p.m. for Cockeysville, Parkton, Green Springs, Owings' Mills, etc.

Returning, leaves Parkton at 6 and Cockeysville and Owings' Mills at 7, arriving in Baltimore at 9 o'clock a.m.

Tickets for the yound trip to and form Tickets for the round trip to and from any point can be procured from the agents at the ticket offices or from the conductors in the cars. The fare when tickets are thus procured, will be 25 per cent. less, and the tickets will be good for the same and followany passenger train.
D. C. H. BORDLEY, Sup't.
Ticket Office, 63 North st. ing day 31 Ty CENTRAL RAILROAD-FROM SAVAN nah to Macon. Distance 190 miles.

This Road is open for the trans-Freight. Rates of Passage, \$8 00. Freight—
On weight goods generally... 50 cts. per hundred.
On measurement goods ...... 13 cts. per cubic ft. On measurement goods . . . . On brls, wet (except molasses

NEW YORK & HARLEM RAILROAD CO.—Summer Arrangement.

On and after Friday, May 1st, 1846, the cars will run as follows:

Leave City Hall for Yorkville, Harlem and Mor rianna, at 7, 8, 9, 10 and 11 a. m., and at 1, 2, 3 30, 4 30, 5, 6, and 6 30 p. m.

Leave City Hall for Fordham and Williams' Bridge, at 7, 10 and 11 a. m., and at 2, 3 30, 5, and

6 30 p. m.

Leave City Hall for Hunt's Bridge, Bronx, Tuc-kahoe, Hart's Corners and White Plains, at 7 and 10 a.m., and at 2 and 5 p. m. Leave Harlem and Yorkville, at 7 10, 8 10, 9, 10, 11 10 a.m., and at 12 40, 2, 3 10, 5 10, 5 30, 6 10, and 7 p. m.

Leave Williams' Bridge and Fordbam, at 6 45, 45, and 10 45 a. m., and at 12 15, 2 45, 4 45, and

45 p. m. Leave White Plains, at 7 and 10 a. m., and at 2 an 15 p. m.

The freight train will leave the City Hall at I o'clock, p. m., and leave White Plains at I o'clock

O'clock, p. m., and leave White Flains and leave the morning.

On Sundays, the White Plains train will leave the City Hall at 7 a. m. and 5 30 p. m.; will leave White Plains at 7 a. m. and 6 p. m.

On Sundays, the Harlem and Williams' Bridge trains will be regulated according to the state of the

18

RAILROAD IRON.—THE "MONTOUR Iron Company," Danville, Pa., is prepared to execute orders for the heavy Rail Bars of any pattern now in use, in this country or in Europe and equal in every respect in point of quality. Ap-ply to MURDOCK, LEAVITT & CO., Agents.

Corner of Cedar and Greenwich Sts.

tance 65‡ Miles. Fare, \$1 50. From 1st November to 1st March Passen ger Trains leave Cincinnati for Xenia at 11 o'clock, A.M.
Returning, leaves Xenia at 81 o'clock, A.M.
Freight Trains run daily, Sundays excepted.
At Xenia, Passenger Trains connect with daily lines of stages to Columbus, Wheeling, Cleveland and Sandusky city.
W. H. CLEMENT,
Supt. and Engineer.

Supt. and Engineer.

NICOLL'S PATENT SAFETY SWITCH for Railroad Turnouts. This invention, for some time in successful operation on one of the principal railroads in the country, effectually prevents engines and their trains from running of the track

at a switch, left wrong by accident or design.

It acts independently of the main track rails, being laid down, or removed, without cutting or displacing

It is never touched by passing trains, except when in use, preventing their running off the track. It is simple in its construction and operation, requiring

only two Castings and two Rails; the latter, even if much worn or used, not objectionable.

Working Models of the Safety Switch may be seen at Messrs. Davenport and Bridges, Cambridgeport, Mass., and at the office of the Railroad Journal, New York.

New York.

Plans, Specifications, and all information obtained on application to the Subscriber, Inventor, and Patentee.

G. A. NICOLLS, ja45 Reading, Pa.

EARNEY FIRE BRICK. F. W. BRINLEY, Manufacturer, Perth Amboy, N. J. Guaranteed equal to any, either domestic or foreign. Any shape or size made to order. Terms, 4 mos. from delivery of brick on board. Refer to James P. Allaire,

James F. Aliant,
Peter Cooper,
Murdock, Leavirt & Co.
J. Triplett & Son, Richmond, Va.
J. R. Anderson, Tredegar Iron Works, Rich-

mond, Va.

mond, Va.
J. Patton, Jr.
Colwell & Co.
J. M. L. & W. H. Scovill, Waterbury, Con.
N. E. Screw Co.
Provicence, R. I.
Eagle Screw Co.
William Parker, Supt. Bost. and Worc. R. R.
New Jersey Malleable Iron Co., Newark, N. J.
Gardiner, Harrison & Co. Newark, N. J.
Gardiner, Harrison & Co. Newark, N. J.
5000 to 30 000 made weekly.
35 1y 25,000 to 30,000 made weekly.

EORGE VAIL & CO., SPEEDWELL IRON T Works, Morristown, Morris Co., N. J.—Manufacturers of Railroad Machinery; Wrought Iron Tires, made from the best iron, either hammered or rolled, from 14 in. to 24 in thick.—bored and turned outside if required. Railroad Companies wishing to order, will please give the exact inside diameter, or circumference, to which they wish the Tires nade, and they may rely upon being served according to order, and also punctually, as a large quantity nade, and they may rely upon being served according to order, and also punctually, as a large quantity of the straight bar is kept constantly on hand.—
Crank Axles, made from the best refined iron; Straight Axles, for Outside Connection Engines; Wro't. Iron Engine and Truck Frames; Railroad Jack Screws; Railroad Pumping and Sawing Machines, to be driven by the Locomotive; Stationary Steam Engines; Wro't. Iron work for Steamboats, and Shafting of any size; Grist Mill, Saw Mill and Paper Mill Machinery; Mill Gearing and Mill Wright work of all kinds; Steam Saw Mills of simple and economical construction, and very effective Iron and Brass Castings of all descripions.t

FLAT BAR, ENGLISH ROLLED, RAILroad Iron, 24 & —a large part suitable to
relay. For sale by C. J. F. BINNEY,
Commission Merchant, 1 City Wharf, Boston, Mass

The advertisers would prefer second-hand iron, if not too much worn. Address Box 384 Philadelphia 48 1y P. O .- Post paid.

Spring Arrangement. Trains will be run on h this Road as follows, until further notice, Sundays excepted. Leave Troy at 61 A.M. Leave Albany at 7 .. .. 12 9½ 10½ 11½ 22 10 - 66 11 44 22 . .. 46 12 M. P.M. P.M. 1½ 2½ \*\* 3 31

TROY AND GREENBUSH RAILROAD.

51 61 The 61 a.m. and 2 o'clock p.m. runs from Troy, to Boston runs.
The 12 m. and 6 o'clock p.n. trains from Boston

66

44

Passengers from Albany will leave in the Boston Ferry Boat at the foot of Maiden Lane, which starts promptly at the time above advertised.

Passengers will be taken and left at the principal Hotels in River Street, in Troy, and at the Nail Works and Bath Ferry.

L. R. SARGENT. Superintendent.

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Troy, April 1st, 1846.

44

MACHINE WORKS OF ROGERS, Ketchum & Grosvenor, Patterson, N. J. The undersigned receive orders for the following articles, manufactured by them of the most superior descrip-tion in every particular. Their works beingexten-sive and the number of hands employed beinglarge, they are enabled to execute both large and small or-

ders with promptness and despatch.

Railroad Work.

Locomotive steam engines and tenders; Driving and other locomotive wheels, axles, springs & flange tires; car wheels of cast iron, from a variety of patterns, and chills; car wheels of cast iron with wrought tires; axles of best American refined iron; springs; boxes and bolts for cars.

Cotton, Wool and Flax Machiner

of all descriptions and of the most improved patterns,

of all descriptions and of the most improved patterns, style and workmanship.

Mill gearing and Millwright work generally; hydraulic and other presses; press screws; callenders; lathes and tools of all kinds; iron and brass

castings of all descriptions.

ROGERS, KETCHUM & GROSVENOR,
a45 Paterson, N. J., or 60 Wall street, N. York.

TO RAILROAD COMPANIES AND MAN-ufacturers of railroad Machinery. The subscri-bers have for sale Am. and English bar iron, of all sizes; English blister, cast, shear and spring steel; Juniata rods; car axles, made of double refined iron; sheet and boiler iron, cut to pattern; tiers for loco-motive engines, and other railroad carriage wheels, made from common and double refined B. O. iron; the latter a very superior article. The tires are made by Messrs. Baldwin & Whitney, locomotive engine manufacturers of this city. Orders addressed to them, or to us, will be promptly executed.

When the exact diameter of the wheel is stated in

the order, a fit to those wheels is guaranteed, saving to the purchaser the expense of turning them out inside.

THOMAS & EDMUND GEORGE, N. E. cor. 12th and Market sts., Philad., Pa.

THE SUBSCRIBERS, AGENTS FOR the sale of Codorus. Glendon, Pig Iron. Spring Mill and Pig Iron.
Valley,
Have now a supply, and respectfully solicit the

Have now a supply, and respectfully solicit the patronage of persons engaged in the making of Machinery, tor which purpose the above makes of Pig Iron are particularly adapted.

They are also sole Agents for Watson's celebrated Fire Bricks and prepared Kaolin or Fire Clay, orders for which are promptly supplied.

SAM'L. KIMBER, & CO.,
59 North Wharves,

Jan. 14, 1846.

Jan. 14, 1846. [1y4] Philadelphia, Pa. M

RAILROAD IRON AND LOCOMOTIVE.
Tyres imported to order and constantly on hand
by
A. & G. RALSTON
Mar. 20tf
4 South Front St., Philadelphia.

THE NEWCASTLE MANUFACTURING

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Driving and other wheels for Locomotives.

The works being on an extensive scale, all orders will be executed with promptness and despatch. Communications addressed to Mr. William H. Dobbs, Superintendent, will meet with immediate attention.

ANDREW C. GRAY, add President of the Newcastle Manuf. Co.

APplications must be post paid.

CUSHMAN'S COMPOUND IRON RAILS. TO RAILROAD COMPANIES AND BUILDetc. The Subscriber having made important improvements in the construction of rails, mode of guarding against accidents from insecure joints, etc.

PASCAL IRON WORKS. Mar. 20tf

4 South Front St., Philadelphia.

THE NEWCASTLE MANUFACTURING Company continue to furnish at the Works, situated in the town of Newcastle, Del., Locomotive and other steam engines, Jack screws, Wrought iron work and Brass and Iron castings, of all kinds connected with Steamboats, Railroads, etc.; Mill Gearing of every description; Cast wheels (chilled) of any pattern and size, with Axles fitted, also with wrought tires, Springs, Boxes and bolts for Cars; Driving and other wheels for Locomotives.

The works being on an extensive scale, all orders will be executed with promptness and despatch.

guarding against accidents from insecure joints, etc.—respectfully offers to dispose of Company, State Rights, etc., under the privileges of letters palent to Railroad Componies, Iron Founders, and other sinterested in the works to which the same relate. Companies reconstructing their tracks now have an opportunity of improving their roads on terms very articularly interests connected with their construction and operation; roads having in use flat bar rails are particularly interested, as such are permanently available by the plan.

W. Mc. C. CUSHMAN, Civil Engineer, Albany, N. Y.

# PASCAL IRON WORKS.

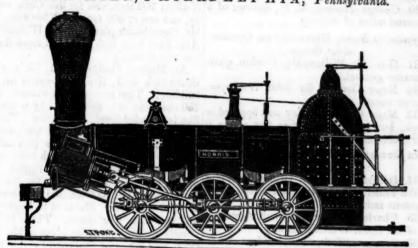
# WELDED WROUGHT IRON TUBES

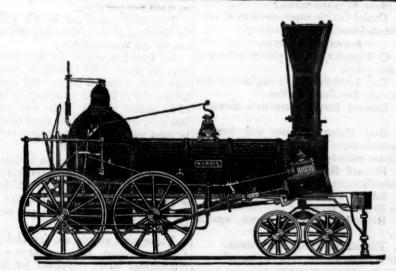
From 4 inches to 1 in calibre as capable of sastaining pressure fiper square inch, with Stop other fixtures to sait, fitting to joints, suitable for STEAM, WALOCOMOTIVE and other STEAM.



Manufactured and for sale by MORRIS, TASKER & MORRIS-arehouse S. E. Corner of Third & Wainut Street S. E. Corner of Third & Wainut Street

# NORRIS' LOCOMOTIVE WORKS. BUSH HILL, PHILADELPHIA, Pennsylvania.





MANUFACTURE their Patent 6 Wheel Combined and 8 Wheel Locomotives of the following descriptions, viz:

Class 1, 15 inches Diameter of Cylinder, × 20 inches Stroke.

15 inches Diameter of Cylinder, × 20 inches Stroke. × 24 66 14 3, 141 66  $\times$  20 24 23

EE . 44 4, 121  $\times$  20 44 × 20 111 44 - 46 44 22 44 " × 18 - 66

With Wheels of any dimensions, with their Patent Arrangement for Variable Expansion. Castings of all kinds made to order: and they call attention to their Chilled Wheels or the Trucks of Locomotives, Tenders and Cars. NORRIS, BROTHERS.

GREAT SOUTHERN MAIL LINE! VIA
Washington city, Richmond, Petersburg, Weldon and Charleston, S. C., direct to New Orleans.
The only Line which carries the Great Southern
Mail, and Twenty-four Hours in advance of Bay

Mail, and Twenty-four Hours in advance of Bay Line, leaving Baltimore same day.

Passengers leaving New York at 44 P.M., Philadelphia at 10 P.M., and Baltimore at 64 A.M., proceed without delay at any point, by this line, reaching Richmond in eleven, Petersburg in thirteen and a half hours, and Charleston, S. C., in two days from Baltimore.

VALUABLE PROPERTY ON THE MILL Dam For Sale. A lot of land on Gravelly Point, so called, on the Mill Dam, in Roxbury, fronting on and east of Parker street, containing 68,497 square feet, with the following buildings

68,497 square teet, with the long, by 46 ft wide, thereon standing.

Main brick building, 120 feet long, by 46 ft wide, two stories high. A machine shop, 47x43 feet, with large engine, face, screw, and other lathes, suitable to do any kind of work.

Pattern shop, 35x32 fee, with lathes, work benches, Work shop, 86x35 feet, on the same floor with the sattern shop.

pattern shop.

pattern shop.

Forge shop, 118 feet long by 44 feet wide on the ground floor, with two large water wheels, each 16 feet long, 9 ft diameter, with all the gearing, shafts, drums, pulleys, &c., large and small trip hammers, furnaces, forges, rolling mill, with large balance wheel and a large blowing apparatus for the foundry.

Foundry, at end of main brick building, 60x454 feet two stories high, with a shed part 454x20 feet, containing a large air furnace, cupola, crane and corn oven.

corn oven.

corn oven.

Store house—a range of buildings for storage, etc.,

200 feet long by 20 wide.

Locomotive shop, adjoining main building, fronting on Parker street, 54x25 feet.

Also—A lot of land on the canal, west side o Parker st., containing 6000 feet, with the following buildings thereon standing:

Boiler house 50 feet long by 30 feet wide, two stories.

Blacksmith shop, 49 feet long by 20 feet wide.
For terms, apply to HENRY ANDREWS, 48
State st., or to CURTIS, LEAVENS & CO., 106
State st., Boston, or to A. & G. RALSTON & Co., Finnadelphia.

RAILROAD IRON—500 TONS T RAILS
—60 lbs. to the yard. Depth of rail, 34 inches; width of base, 4 inches; width of top, 24 inches; length of bars, 15 and 174 feet. Apply to
A Steam Pile Driver—built by "Dunham & Co."—in complete order; has never been used, and for sale a bargain. Cost originally \$5,000. Also 13 Railway Passenger Cars, that have never been used, which will be sold a bargain.

But DAVIS, BROOKS & CO.,
April 11. 10 30 Wall street.

The Gauge Question.

We find in the Railway Express, of 3d April, a list of those who were examined by the commissioners in relation to this question. It includes 46 persons, among whom are several of the most eminent engineers of the kingdom. We give the list entire, Manchester and Leeds. that our readers may know who they are.

"The appendix to the report of the gauge ford. commissioners, containing the evidence taken before them, will form a thick folio volume Midland railway of nearly 400 pages. Forty witnesses were examined, many of them more than once. fords, carriers. This number included almost every individual eminent in the railway world, either as an engineer or a manufacturer of locomotives, a manager, a secretary, a carrier, or an amal-gamator. The following will be found the only correct list yet published, and will give thor of a celebrated work on the steam ensome idea of the mass of information on gine) which the commissioners founded their report. For convenience of comparison, the list has thousand miles of railway. been divided into—'in favor of the narrow gauge with national uniformity: 'in favor of the broad gauge, with break of gauge;' in favor of an intermediate gauge.

In Favor of Narrow Gauge and Uniformity.

1. Robert Stephenson, civil engineer and quarter master general manufacturer of locomotives (son of George Stephenson, the inventor of railway locomotion).

2. Joseph Lock, civil engineer, (who completed the Grand Junction railway).

3. James Edward M'Connel, superintendent of the locomotive department on the Birmingham and Gloucester railway.

4. J. U. Rastrick, engineer of the Brighton railway.

5. Albinus Martin, resident engineer and 36. Seymour Clerk, superin superintendent of the Southwestern railway. fic on Great Western railway.

6. Captain J. M. Laws, general manager of the Leeds and Manchester railway.

7. John Braithwaite, chief engineer of the Eastern Counties (adopted narrow gauge in

lieu of 5 feet gauge).

8. Captain Wm. O'Brien, secretary of the

Southeastern railway. 9. Thomas Bucton, secretary to the Brigh

ton railway.

mingham railway.
11. George P. Bidder, civil engineer on

branches of the London and Birmingham, tive manufacturer. and a friend of R. Stephenson.

turer.

13. William Furnihough, superintendent break. of Eastern Counties locomotives.

14. Wyndham Harding, late manager of the Bristol and Gloucester railway.

15. Captain Mark Huish, general manaer of the Grand Junction and Liverpool and Manchester.

16. Benjamin W. Horne, carrier and partner with Mr. Chaplin.

17. Evan Jones, agent for Chaplin and Horne, carriers, at Camden station. 18. Thomas Whitaker, civil engineer.

19. Richard Creed, secretary to the Londen and Birmingham railway.

20. Peter Clarke, manager of the Brigh-

Price's iron and coal works.

22. W. James Chaplin, chairman of the Southwestern, and a carrier with Mr. Horne.

24. William Bass, agent to Messrs. Pick-

25. John Ellis, deputy chairman of the

26. Joseph Maynard, of the firm of Pick-

27. Edward Woods, civil engineer.

works and coal mines, deputy chairman of is called the Ajax. The third is a very large the Welsh Midland. Steamer, of about 1,300 tons, building for the

30. George Hudson, M. P., director of a

Opposed to Break, Expressing no Opinion about Gauge.

31. Gen. Sir Willoughby Gordon, quartermaster general.

32. Major General Sir John Burgoyne,

33. Major General Pasley was opposed to break, but in favor of a five foot gauge if practicable now.

In favor of Broad Gauge with Break of Gauge.

34. Isambard Kingdom Brunel, (inventor of the broad gauge,) engineer of the Great Western railway.
35. Charles Alexander Saunders, secreta-

ry of the Great Western railway.

36. Seymour Clerk, superintendent of traf-

37. Daniel Gooch, superintendent of locomotives on Great Western railway.

Intermediate Gauge. 38. C. Vignoles, civil engineer, in favor of

six foot gauge. 39. Col. Landmann, late engineer to the Greenwich, five feet to six feet.

40. Edward Bury, locomotive manufac-

10. Thomas C. Mills, manager of the goods department at the London and Birtive manufacturer to the Croydon, Brighton,

and Dover railways 42. Richard Roberts, formerly a locomo-

43. John Gray, locomotive superintendent

12. George Bodmer, locomotive manufacof the Brighton railway.
44. Richard Downs, contractor, against

45. Thomas Jackson, against break. 46. William Cubitt, civil engineer."

Iron Ship Building.

We find the following account in relation to the progress of iron ship building near Liverpool, Eng. It will very naturally lead those who watch the signs of the times, to the conclusion that this branch of business, as well as railroads, is destined to make large demands upon the iron manufacture of this country as well as England. Few indeed, at this day, were intended for the inland navigation of estimate this demand correctly.

Iron Steam Vessel Building on the Mersey. Among the numerous objects of interest which

21. James Brown Head, of Sir Robert Liverpool presents, perhaps few are more important than the progress now making in the new and rising art of iron ship building.

The extensive new premises erected by 23. John Hawkshaw, engineer of the Messrs. Vernon and co., being highest up the river, first require attention. No expense has been spared by these builders to provide the most efficient means for carrying on their work. Three very fine ships are now on the stocks. The first is the Windsor, of about 800 tons, building for the city of Dublin company, from the plans of Mr. Grantham.— The second vessel of the same dimensions as 28. James P. Budd, manager of copper the Windsor, is for the Cork company, and 29. Nicholas Wood, civil engineer, (au-lor of a celebrated work on the steam en-is about half plated. Messrs. Vernon and Co. have orders for two more steamers, one of about 700 tons, also for the Cork company, and one of 300 tons for Fleetwood, from Mr. Grantham's plan. (The Windsor and Ajax have been both launched since this notice was written.)

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At Messrs. Hodgson and Co.'s works, Brunswick dock, five iron vessels are now building. That nearest completion is about 250 tons, and is to be worked by a screw.-She is intended for Buenos Ayres. The next is the Antelope, of nearly 600 tons, intended as a packet ship between this port and the Brazils. She is of great length and very fine lines, and is to be powerfully rigged. The lines, and is to be powerfully rigged. The next to her is a large vessel for the New York trade, to be 1000 tons old measurement, or 1500 tons new. She is to be heavily rigged, and with four masts. These two last vessels are built from the plans of Mr. Grantham, and are to be propelled by the screw,

on the direct principle. Two other vessels are in this yard: one

for Bombay, of about three hundred tons, and one for the Woodside ferry.

Mr. Cato has orders for four vessels, all from the plans of Mr. Grantham: one of 650 tons, lately launched but not yet completed, for the city of Dublin company, to be worked by paddle wheels. Also two vessels of 300 tons, which are for the same company, to be fitted with the screw propeller, and rigged as three masted schooners,

Mr. Laird, the well known builder at Birkenhead, has also five steamers in the course of construction. The frigate "Birkenhead," of 1400 tons, lately launched, is now receiving her engines in the Trafalgar dock, and looks remarkably well.

Three other vessels are intended for the Folkstone station, to be similar to a beautiful steamer lately completed for the same line, named the *Prince Ernest*, which has been highly approved of for her speed and good qualities.

The first iron steam vessel which appeared on the Mersey was built in Staffordshire and came here in 1824, and the first that was built here, was constructed by Messrs. Faw-cett, Preston and Co., in 1829; both of these Ireland. They have been constantly at work, and are said to be still in good condition.

While on this subject we may relate an

interesting fact that has come to our knowledge. In Mr. Grantham's work on iron and much neglected, but were on examination lately, found to be in such good condition that a firm in Rouen has undertaken to lengthen them, preparatory to receiving new ma-chinery, and being again fitted for service.— Liverpool Standard.

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Channel Steamers .-- On Thursday last the Belgian railway, a very fine iron steamer fitted out for the Belgian government, in order to carry the mails between Ostend and been built by Messrs. Ditchburn and Mare, of Blackwall, and engine fitted by Messrs, ted States alluded to.
Maudslay and Field. She left Blackwall at "Among our orig 20 minutes past 11, and returned to her moorrespect highly satisfactory.

class of vessels which within the last two or Our readers are doubtless, aware of the enor-

The Iron Trade.

This branch of industry is receiving increaship building he describes an iron steamer, sed attention in Europe as well as in this country. There is evidently apprehension in Engsed attention in Europe as well as in this councountry in 1821, and sent to the Seine, where gland, of greater competition in the trade in plan lately adopted in Belgium and France, she worked between Havre and Rouen.— this country than has ever before existed—and and found completely successful,) and giving This steamer, with two others built about the well there may be, as the time will come when every indication that they are determined to same time, have been most severely worked we shall export more iron than we ever im- "go a-head," and take every advantage of the ported. We only need experience—and we stores of mineral which nature has placed are acquiring that rapidly—to enable us to within their reach—we again say, that it beare acquiring that rapidly-to enable us to compete successfully with the cheap labor, long experience and capital of Britain. The next ten years will produce changes in this trade which will astonish even the most sanguine in this country.

The annexed article from a late London Mining Journal shows that it is deemed necessa-Dover, was tried down the river. She has ry to look to their laurels, if they are to be re- of ores and coal with which nature has scattained. We also give the letter from the Uni-tered America, our manufacturers have it still

"Among our original correspondence, in another column, will be found a letter on the ings at 20 minutes past five; having gone anthracite iron of Pennsylvania-one of imdown ten miles below the Nore and back in mense importance to all who are interested 6 hours, including a stoppage of some min-utes at Woolwich. The trial was in every ertions brother Jonathan is making to rival The Belgian railway is another of that of the staple commodities of the country. three years has created such a revolution in mous deposits of iron ore and anthracite coal the channel service, as regards speed and accommodation. Formerly, the insufficiency these sources of wealth with which nature of the packet vessels used to be the subject of has so abundantly supplied America, have constant and well founded complaints; they lain comparatively dormant; and Scotch pig were all wooden vessels, and though managiron has formed an article of extensive transed with great skill, the time they occupied in Atlantic exportation—its low figure, as comperforming their voyages was very great pared with English and Welsh iron, enabling under the best of circumstances, and in bad it to bear the cost of freight, and then obtain under the best of circumstances, and in bad it to bear the cost of freight, and then obtain will eventually, and very shortly, stop the weather so much so, as to deter passengers a remunerative price in the American marimportation of Scotch iron. Knowing the inform going with them. from going with them. The first step in adket. We have, on many occasions during vance was the purchase by government of the past year, re-echoed the warning note to the Dover, an iron vessel built at Liverpool; the iron masters, that it behoved them, by tathe seed was about one-third greater than king advantage of every improvement, to im-Alice, whose speed was nearly twice as great possible cost—that, while the continental manufacturers, as well as those of America by the Princess Mary, Princess Maude, and are straining every nerve to extend their trade, by the Belgians, for the South Eastern they may be still in a position to half the file to it, that it is very soft. railway company. The Ondine came next their own superiority, and thus retain those in order; she was built for a private company markets, which, without strenuous exertions, at Dover, but subsequently bought by the will be lost to them forever. It appears, at Dover, but subsequently bought by the proprietor of the Morning Herald to carry despatches. The South Eastern company then got the Queen of the French and Prince Errest. The whole of these vessels, beginning that the Alice, have kept up the communication with France and Belgium in all weathers with the greatest regularity, and at times when the old vessels dare not "look at it."—

The government finding that their old vessels, the private ones, sals could not compete with the private ones, that they got none of the passengers, ordered several new ones to be built on the model and proportions of the Princess Alice. The Onyx, the first of their new batch, went to her station this week, and the Violet, her issuer to the private one state boat, was as well as the Belgian rail-to her station this week, and the Violet, her issuer boat, was as well as the Belgian rail-to her station this week, and the Violet, her issuer boat, was as well as the Belgian rail-to her station this week, and the Violet, her issuer boat, was as well as the Belgian rail-to her station this week, and the Violet, her issuer boat, was as well as the Belgian rail-to her station this week, and the Violet, her issuer boat, was as well as the Belgian rail-to her station this week, and the Violet, her issuer boat, was as well as the Belgian rail-to her station this week ending the discoveries of all other countries when found advantageous—when the receipts for the week ending the discoveries of all other countries when found advantageous—when the receipts for the week ending the discoveries of all other countries when found advantageous—when the result of the furnace, which is turning out 85 to 90 tons pig iron per week, of beautiful quality:

with feather to be week of the given the furnace, which is turning out 85 to 90 tons pig iron per week, of beautiful quality:

4,400 lbs. coal of the week, of beautiful quality:

4,400 lbs. coal of the sturning out 85 to 90 tons pig iron per week, of beautiful discounts from 15 ton limestone. So the Atlanti

lamented Mr. CRANE, in the application of anthracite to iron smelting, the economical hoves the iron masters of this country, and Scotland, to persevere in the improvement of their make, and thus keep up that demand in those continental markets, which with care may be secured for many years to come.— These islands have been equally blest with a profusion of inexhaustible mineral deposit; and notwithstanding the boundless profusion in their power to retain their position in the metal markets of the world. The principles of free trade are gradually disseminating themselves throughout all civilized countries and with a clear stage, and unshackled by the fetters of restrictive tariffs, the energies and perseverance of those engaged in the development of British produce, shall carry them triumphant over all competitors throughout the world."

The letter referred to, which is dated Feb, 27, 1846, says-

"The principal reason for the few orders you have received from us for a long time is that we are now getting an anthracite pig iron, which is taking the place of Scotch entirely with our customers—which is a great change in the iron trade of this country, and terest you take in the iron trade, we have sent two samples of pig, made with the an-

cite coal, and is a very superior iron. The cost of making the first is as follows, as we have it from the manufacturer.

Thames Tunnel.—Receipts for the week ending 28th February, £76 3s, 11d.; and number of passengers, 18,282.

"This furnace will not take so much coal as we have stated, as the blast is heated by 6th country the valuable discoveries of the the gas from the top, and the steam engine is

There has been a reduction in the price of iron. The quotations of 20th March, were rails £10 15s. a £11, and Scotch pig, £3 10s. a £3

On the 27th the quotations are rails £0 0s. a £10 15s., and Scotch pig £0 0s. a £3 10.

Iron.-In Welsh and Staffordshire very little doing, and prices are about 5s. lower than those quoted in last week's Mining Journal. Scotch pig has been in fair demand at 70s. for exportation, and many sales have been made. A few sales of Russian, at about prices quoted, but in Swedish nothing doing.

I Projected Communication Across the Isthmus of Panama.

The wonder is that this important work does not command more attention, especially from Americans. It should be an American work-or not wholly an European enterprise; yet we do not hear of any effective movement on the part of our country, or countrymen, in favor of the work-though other nations are moving in it.

We find, in a late number of the London Mining Journal, the following extract from the report of M. Garella, who has made an examination of the pass. It is truly a gigantic undertaking, yet the increasing business of the nations will require a passage, either a canal or a railroad—the latter we presume—before

A railroad of sufficient capacity to allow the passage of a ship of a thousand tons may be constructed for less money than a canal for a ship of same dimensions. A railroad with three tracks would receive a cradle upon which a vessel would ride as much at ease as upon the water-and it would not bear much more heavily upon any one point of the rail than the heaviest locomotives of the present day.

We have, in several former numbers, given an account of the projected ship canal across the isthmus of Tehuantepec, tween the two oceans, and made his estimates of the expenses; and in his opinion, the establishing of a railway, or a good Macadamthat the cutting a ship canal is perfectly practicable. The slip of land which joins North and South America measures at least 1,430 miles, (2,300 kilometres) in length. This immense tract of land presents various heights. At Panama itself, between that town and Chagres, there are only 40½ miles,—from the mouth of the Caimeto, in the vicinity of Panama to the mouth of the Rio Chagres, on the Atlantic, the distance is only

masterly mind. This subterraneous passage will be cut through a very hard porphyry—it must be of the length of 5900 yards, and will be approached by trenches of from 45 to 50 metres (165 feet deep.) It would permit the establishing of division at 328 feet under the culminating point—so that the elevation, to be surmounted by locks, would now be only locks, would now be only locks above the level of the low water mappy to continue our various accounts of the working of this railway. From accounts of the working of this railway. From accounts of the working of the that the cutting a ship canal is perfectly prac-

worked by neat from the same source—the boiler being at the top of the furnace. So you will see we are pretty well prepared for any reduction in the tariff, which we think will take place; if it does, iron can be made cheaper as labor will fall."

30 miles—and a little more to the east, to-difference of the tides, it would be 177 feet, wards the bay of San Blas, only 31½ miles. The expense of the canal with the tunnel would be, according to the calculations of M. Garella, 5,000,000L, and with the interior mus as to its facilities and difficulties, he was walling of the passage, it would be 5.560.000L worked by heat from the same source-the 36 miles-and a little more to the east, to-difference of the tides, it would be 177 feet, mus as to its facilities and difficulties, he was walling of the passage, it would be 5,560,000%. Convinced that it would be practicable to cut The profits of the enterprise, after all the exa navigable canal for vessels of 1200 tcns. penses deducted, would yield the sum of 5 per This canal to the Pacific ocean must be cut through the valley of the Caimeto, so as to run into the sea at the anchorage of Vaca de absolutely recommend it, and has carefully Monte, situated about 12 miles to the west of examined what could be done, if it were Panama, and towards the Atlantic ocean, by thrown aside. In this case, he is of opinion the valley of Rio Chagres, to meet on the to dig a trench 275 feet deep, and the bottom ocean, not at the harbor of Chagres, which is of which would be 49½ feet above the bottom inaccessible to large vessels, but at the bay of that of the subterraneous passage, which of Limon, five miles distant-thus would be would call for five locks more on each side, insured on both sides a free and ready com-munication of the canal with the sea. The were reduced to canal, capable only of relength of the canal would be in all 471 ceiving vessels of 600 tons burden, the exmiles—of which 34 are between the Pacific ocean and the Chagres,  $7\frac{3}{4}$  between Rio Chagres and the bay of Limon, and  $5\frac{3}{4}$  in the bed of the Chagres. The dimensions to be as follows—depth,  $28\frac{1}{5}$  feet; breadth at isthmus of Tehuantepec has been studied, in the standard of the chagres. water level, 149½ feet, breadth at bottom, 65½ a very careful manner, by Signor Moro, an feet. The canals for navigating boats and experienced engineer, on behalf of a Mexibarges in France, are at most from 3½ to 6½ can Company,—and that of Nigaragua, in feet (2 metres) deep, from 15 to 18 metres Central America, by Mr. Bailey, an officer (59½ feet) broad at water level, and at the of the British navy, who has conscientiously most 39½ feet at the bottom. The largest of fulfilled his task in that laborious survey. the existing canals is the Caledonian, which is a ship canal, and is 20 feet deep, 122 in interest in the accomplishment of this vast breadth at the water level, and 53 at the bottom. M. Garella's project is distinguished by assistance for carrying it out. We have seen a very bold feature. To carry an ordinary the various plans of the three projects, and canal over an elevation of 460 feet, would cause no surprise; but this is no longer the case, when it is the question of a ship canal, and finding that the elevation would be so great to overcome, and that at a most enormous expense, what with locks, forming the summit level, and the country offering no means of giving a sufficient quantity of water, to correspond with the draught of the canal, he conceived the gigantic idea of making (what is generally done in ordinary canals) a subterraneous passage. All those who have surveyed by Signor Gaetano Moro, and subterraneous passage. All those who have conceded to Don Jose de Garay, by the hitherto written on the canal of the isthmus Mexican government. We now have the of Panama, have been dismayed by such a pleasure of giving to our readers a short extract from the report of M. Garella, one of the distinguished members of the Ponts et Chaussees in Paris, who had been deputed to study the important question of the practical and the summit of the arch will be forced ahead all along the line with great and the summit of the arch will be forced ahead all along the line with great and the summit of the arch will be forced ahead all along the line with great and the summit of the arch will be forced ahead all along the line with great and the summit of the arch will be forced ahead all along the line with great and the summit of the arch will be forced ahead all along the line with great and the summit of the arch will be concluded in a few days, which lead me to believe that the work will be forced ahead all along the line with great and the summit of the arch will be forced ahead all along the line with great and the summit of the arch will be forced ahead all along the line with great and the summit of the arch will be concluded in a few days, which lead me to believe that the work will be forced ahead all along the line with great and the summit of the arch will be concluded in a few days, which lead me to believe that the work will be forced ahead all along the line with great and the summit of the arch will be concluded in a few days, which lead me to believe that the work will be forced ahead all along the line with great and the summit of the arch will be concluded in a few days, which lead me to believe that the work will be forced ahead all along the line with great and the summit of the arch will be forced and all along the line with great and the summit of the arch will be forced and all along the line with great and the summit of the arch will be forced and all along the line with great and the summit of the arch will be concluded in a few days, which lead me to be forced and all along the line with great and the summit of the arch will be concluded in a few days. study the important question of the practicability of cutting through the isthmus of Panama. This clever engineer has made a wessels would necessarily keep in their lower most minute survey of the tract of land bemasts, a height of about 122 feet would be required (nearly the height of the column of Napoleon, Place Vendome, Paris,) and a breadth of 69 feet. The idea of such an undertaking could only be contemplated by a distribution of the column of the progress of railways in the West Indies, or in Cuba; but we hope to be able hereafter to give a full account of them. We take the following from the Jamaica Dispatch of March 11th: tablishing of a railway, or a good Macadam-ised road, offers but very few difficulties, and that the cutting a ship canal is perfectly prac-that the cutting a ship canal is perfectly prac-

there will certainly be great difficulties to be overcome; but what will not science and the enterprize of man accomplish, if he has sufficient means at his disposal?

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Chesapeake and Ohio Canal .- The Cumberland "Civilian" publishes a letter from Frederick which says:

"In regard to the prospects of the canal, I can only say, that I am encouraged to think that all will be well. In one opinion I have unlimited confidence: that the work will be completed, under the present law, to Cumberland. Negotiations are on foot here, and I

# The Jamaica (W. I.) Railway.

We have not often had information in relation to

"We are happy to continue our favorable

New York and Eric Railroad, and the New

York Members of the Legislature.

Legislature of New York.—Assembly, April 22.—

Evening session.—The house resumed the consideration of the New York and Erie railroad.

The question was taken and the bill was lost-

ayes 24, noes 29.

Mr. Stevenson moved to reconsider; and the motion to reconsider lies on the table.

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tifying that a measure so essential to its completion, and ultimate success, should be lost by the absence, have been from misapprehension, and we therefore hope that on the final action, under the reconsideration of the subject, every man favorable to the success of this noble work, and especially every member from this city, will be in his place and do his

## Great Western Steamship--Her First Arrival this Season.

This noble ship came in on Tuesday, the 28th, after a passage of 17 days. She brings no very important news, except that the money market is easier, the cotton market firmer, and the iron market less brisk and prices lower.

In the Mining Journal of the 4th of April, we find the following quotations, viz:

Rails, £10 10s. a £10 15s., and bars, £11 per ton. Welsh cold blast foundry pig, £5 5s., and Scotch pig £3 10s.—which is lower than last accounts.

A correspondent of the Mining Journal says:

"The transactions in Welsh and Staffordshire continue very limited, and consequently a tendency to give way in price has appeared. In some instances £8 10s. for bars in Wales has been accepted; but in the continued depressed state of the money market, with only a dull demand for the continental markets, and none for the Indian, a brisk business cannot be looked for, except at further reduced rates. Sales of Scotch pig have been made at 68s. to 70s. on bard at Glasgow: several export orders were given at these rates, but we cannot report any sale of mag-nitude, either for use or speculation. A few sales occurred both of Russian and Swedish, but in Swe-dish steel none."

March 31 .- We have to note a decline of a shill-

keep up the price, at least for a time, until a large inwhich overspread that bone of contention, will give new life to business and to railroad operations.

The Iron Trade in France.-Casting me-Lost !- the New York and Eric railroad bill, for tal has experienced a slight decline during selecting the best route, lost-and by New York city the last week, which has caused several imvotes! Who could have anticipated such a result? portant transactions to have been entered into. Yet such is the record above; though we should be The following are the quotations of cast meunwilling, were it not undeniable, to credit a record tal delivered at St. Dizier, viz: plate metal unwilling, were it not undeniable, to credit a record so discreditable to our city, which has an interest so deep, and abiding, in the early completion of this road.

It will be seen by the letter of our Cleveland correspondent, that the people of Ohio are waiting the construction of this road to continue the line on westward; then how important that we, here at its from £6 8s. 4d. to £6 12s. 8d.; and for metals our city, which has an interest so discreditable to our city, which has an interest so and hearths, £9; pipes, £9 12s. 6d.; water and hearths, £9; pipes, £9 12s. 6d.; water and gas pipes of 65 millimetres to 162, from 7s. The expenses on two voyages to New Y ork amounted (including insurance, etc.) to £13,573 12s. 7d., and the receipts to only £9,198 for from the fact of the first voyage being an experimental one, and the second having been in consequence of the accident to the screw, prolonged beyond the advertised day of sailing. westward; then how important that we, here at its from £6 8s. 4d. to £6 12s. 8d.; and for meterminus, should give it our whole and undivided chanical purposes from £15 4s. 2d. to £20. efforts until it shall be ready for use; and how mor- The iron manufactory of Couillet and Marcinellee, the principal ones of the whole of Hainaut, have eight high furnaces-of these, or direct vote, of one of our city members. It must four are in full blast, and the other four inactive, but one or two of them will soon be burning, as this company have received considerable contracts for rails for the interior.— The company or society of Chatelineau have seven high furnaces, but at present only two their course. are in full blast. At Monceau-sur-Sambre, out of the four high furnaces, there are three at work. The two high furnaces of the iron factory of Hourpes are constantly lightedthe same with the two belonging to M. de Dorlodot, at Bouffiaulx and Acoz; that of the company of la Providence, and that of M. Dupont, at Fayt. At Montignies, there is one in full blast, and one not. That of Hanches is still extinguished. Therefore, out of 28 high furnaces, which exist in the basin of Charleroi, there are, at the present moment, 16 in full work, and 12 inactive; but there is very little doubt that several of the latter will soon be placed in full blast.

Improvments in the Construction of Rail-Saturday, a letter on the subject of Green-how's geometrical railway, signed "Robert Mushet," which concludes with the following remarks: "Substitute concrete for ballast as a basis for the longitudinal sleepers, and adopt cast iron sleepers instead of the present dish steel none."

Kyanized humbug, for the support of the Glasgow Iron Trade.—March 27.—During the course of the week not much iron has changed hands selves in grooves left for that purpose in the on speculation—prices, however, remain much the same as in our last. We quote the price as 69s. to 70s. for choice of Nos. It is supposed that the numerous shipments now making will considerably reduce the stock on hand here.—National Adv. cast iron sleepers, and retaining them in these den's bill on the same subject to a select committee grooves by means of lead or iron cement, of one from each Senate District. Agreed to March 31.—We have to note a decline of a shill-ing or two in prices since in our last; but as purchases are wholly confined to orders for immediate shipment, and the stock of consumers throughout this country being very limited, it is considered that prices cannot recede much farther. It is believed that, ere long, an advance may be looked for, should money resume the ordinary channels.—National.

Havee, March 30.—Lead.—A parcel of 1800 pigs Missouri, expected by the Brunswick, from New Orleans, found buyers at 54f. per 100 kil., duty paid.

This depression in iron will not continue long.—The great and increasing demand for ship building in England, in addition to the sure demand for rail-ways, not only in England, but in all Europe, will supposed many others would share the same fate.

A degree of safety will be attained, which at present is unknown." Some months ago, a patent was sealed for improvements in "rail-petions to some of the provisions contained in it, and the stock of consumers throughout this country being very limited, it is considered that present is unknown." Some months ago, a patent was sealed for improvements in "rail-petions to some of the provisions contained in it, and Mr. Harris replied.

The bill was passed, ayes 87; noes 12.

To revive the charter of the Utica and Susque-thannah railroad company. Laid on the table for views of your correspondent, Mr. Mushet.—

London Mining Journal.

R.

RAILWAYS.—The Liverpool Journal gives a list of 42 railways already rejected by the standing orders committee of the House of Commons, with an age of the provisions contained in it, and Mr. Harris replied.

The bill was passed, ayes 87; noes 12.

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RAILWAYS.—The Liverpool Journal gives a list of 42 railways already rejected by the standing orders committee of the House of Commons, with an age of the provisions.

The House the not of the provi a degree of safety will be attained, which at

The Great Western Steamship Company. crease of manufactories can be, as they surely will be, established. The settlement of the Oregon question, or in other words, the dispersion of the clouds penditures, including repairs, to £23,484 10s. 6d., leaving a profit of £12,431 19s. 9d. The receipts of the Great Britain from visitors and passage money from Bristol to London, Plymouth, Ireland, and Liverpool, amounted to £9,690 17s. 1d. The expenditure on trial trips and voyages, etc., amounted to \$4,437, leaving a surplus of £5,253 16s. 9d.

The expenses on two voyages to New York have received a most satisfactory report from the engineers.

RIGHT OF WAY BILL-BALTIMORE AND OHIO RAIL-ROAD.—The Baltimore and Ohio railroad bill is a law, the governor having informed both houses that it had received his approval and signature.

We cannot say that we are at all pleased with the result of this measure; and we predict that some of those who have opposed the passage of the bill giving the right of way will have cause yet to regret

The governor vetoed a supplement to the act granting transporting powers to the Schuylkill navigation company.

The house passed the following bill finally:

A supplement to the act for the relief of the Cumberland Valley railroad company.

CENTRAL, PENNSYLVANIA, RAILROAD.—The legislature of Pennsylvania passed the bill chartering the Central railroad from Harrisburgh to Pittsburgh. We have not seen a copy of the act, but trust that it is liberal, in proportion to its importance, and that its location will be made upon correct principles—that is, over the best route, without regard to local or individual interests, which have marred so many railroads and canals in this country. There was a large meeting of the people of ways .- Sir: I notice in your Journal of last Philadelphia, on Monday evening last, at which

New York Legislature.
In Assembly, April 23.

Third reading of Bills.
In relation to railways. [This is the reform bill of the railroad committee.]
Mr. Hall moved to commit his and Mr. Working the results of the results of the railroad committee.]

To provide for the construction of a railroad from Albany to Cohoes and Waterford.

Mr. Hayner opposed the bill on the ground of objections to some of the provisions contained in it,

| I SECTION SHOW | STATE OF THE PARTY | 1 I Promith  |  | Loans                                   | Numter,  |       |                         | 43.      | Div.  | 184               | 14.             | Div.  | 18                                      | 15.  | 1   |
|----------------|--|--------------|--|---|--|-------|-------------------------|----------|-------|-------------------|-----------------|-------|---|--|-----|
| S YOU          | NAMES OF RAILROADS.  | L'ngth<br>in | Cost.  | and                                     | of   | on    | Inco                    | me.      | per   | Inco              | me              | per   | Ince                                    | me.  | 1   |
| stan of t      | may F T mill with the rest of the states of  | miles.       | - 000 000  | debts.                                  | shares.  | share | -                       | Nett.    | cent. | Gross.            | Nett.<br>62,172 | Gent. | Gross.                                  | -  | - C |
| Maine.         | Portland, Saco and Portsmouth  | 50<br>35     | 1,200,000<br>750,000   |   |  | 1113  | 89,997                  | 47,166   | 1     | 131,404           | 02,172          |       |   |  |     |
| N. Ham.        | 2 Concord  | 56           | 1,485,461  |   |  |       | 178,745                 | 68,499   | 6     | 233.101           | 86,401          | 64    |   |  |     |
| Mass.          | 4 Boston and Maine extension   | 174          | 455,703  | unfin.                                  |  |       |                         |          |       |                   |                 |       |   |  |     |
| ****           | 5 Boston and Lowell  | 26           | 1.863.746  |   |  |       | 277,315                 | 144,000  | 8     | 316,909           | 147,615         | 8     |   |  |     |
| J              | 6 Boston and Providence  |              | 1.886 135  | none.                                   | 18,600   | 100   | 233,388                 | 110.823  | 6     | 282,701           | 156,109         | 6     |   |  |     |
| Hatting        | 7 Boston and Worcester   | 44           | 2.914.078  |   |  |       | 404,141                 | 162,000  | 6     |                   | 195,163         |       |   |  |     |
| 17.00          | 8 Berkshire  | 21           | 250,000  | not stated                              |  |       | *****                   | 17,500   | 7     | 17,737            |                 |       |   |  |     |
| WILLIAM DE     | 9 Charlestown branch   |              | 280 260  |   |  |       |                         |          | 13    | 34,654            | 13,971          | 51    |   |  |     |
|                | 10 Eastern   | 54           | 2.388.631  |   |  |       | 279,563                 | 140,595  | 6     |                   | 227,920         | 8     |   |  |     |
|                | 11 Fitchburg   | 50           | 1,150,000  | justopn'd                               |  |       |                         |          |       | 42,759            |                 |       |   |  | 1   |
|                | 12 Nashua and Lowell   | 141          | 380,000  |   |  |       | 84,079                  |          | 8     | 94,588            |                 |       |   |  |     |
|                | 13 New Bedford and Taunton   |              |  |   |  |       |                         | 24,000   | 6     | 64,998            | 24,000          | 0     |   |  |     |
|                | 14 Northampton and Springfield   |              | 172,883  | unfin.                                  |  | 100   | 100 220                 | 04 000   |       | 020 054           | 00 464          |       | ******                                  |  |     |
| ****           | 15 Norwich and Worcester   |              | 2,290,000  | 500,000                                 | 16,535   | 100   | 102,330                 | 24,071   | ****  | 230,074           | 33,404          | 9     |   |  | 1   |
| ****           | 16 Old Colony  |              | 87,820   |   |  |       |                         |          |       |                   |                 |       |   |  |     |
| ****           | 17 Stoughton branch  | 4            | 63,075   |   |  |       |                         | 20,000   | 9     | 96 695            | 20,000          | 8     |   |  |     |
| ****           | 19 Vermont and Massachusetts   |              | 250,000  |   | *****  |       | ******                  | 20,000   |       | 30,007            | 20,000          |       | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |  | I   |
| ****           | 20 West Stockbridge  | 3            | 41.516   | 900                                     |  | 100   |                         |          |       |                   |                 | 4     |   |  |     |
|                | 21 Western, (117 miles in Mass.,)  |              | 7,686,202  | 4 686 200                               | 30,000   | 100   | 573 882                 | 284,432  |       | 753,753           | 139,679         | 3     |   |  | .1. |
|                | 22 Worcester branch to Milbury   | 31           | 42,000   | State of the state of                   | 17.1 16 15 15 15 15 15 15 15 15 15 15 15 15 15 |       |                         |          |       |                   |                 |       |   |  | ы.  |
| ****           | 23 Housatonic, (10 months,)  | 74           | 1,244,123  |   |  |       |                         |          |       | 1150,000          |                 |       |   |  | ١.  |
| Conn           | 24 Hartford and New Haven)   | 38           | 1,100,000  | 100,000                                 | 10.000   | 100   |                         |          |       |                   |                 | 6     |   |  | .   |
|                | 25 Hartford and Springfield  | 251          | 600,000  | 400,000                                 | 2,000  | 100   |                         |          |       |                   |                 |       |   |  | ١.  |
| call of        | 26 Stonington, (year ending 1st Sept.,)  | 48           | 2,600,000  | 650,000                                 | 13,000   | 100   | 113,889                 |          |       | 154,724           | 79,845          |       |   |  | .   |
| V. York.       | 27 Attica and Buffalo  | 31           | 336,211  |   |  |       | 45,896                  | 7,522    |       | 73,248            | 48,033          |       |   |  | ٠l  |
|                | 28 Auburn and Rochester  | 78           | 1,796,342  |   |  | 100   | 189,693                 | 112,000  |       | 237,667           | 152,007         | 6     |   |  | ٠l  |
|                | 29 Auburn and Syracuse   |              |  |   |  | 1334  | 86,291                  | 27,334   |       | 96,738            | 52,544          | 6     | ******                                  |  |     |
| ****           | 30 Buffalo and Niagara   | 22           |  |   |  |       | *****                   | ******   |       |                   |                 |       | ******                                  |  |     |
|                | 31 Erie, (446 miles,)  |              | 5,000,000  |   |  |       | *****                   |          |       |                   |                 |       |   |  |     |
| ****           | 32 Erie, opened  | 53           |  | *******                                 |  |       | *****                   |          |       | 126,020           | 59,075          |       |   |  | ·   |
| ****           | 3 Harlem   |              | 2,250,000  | 750,000                                 | 30,000   |       |                         |          |       | 140,685           | 02,399          | ****  |   |  | 1   |
| ****           | 3 Hudson and Berkshire   |              | 575,613  |   | 00.040   | 50    |                         |          |       |                   |                 |       | ******                                  |  |     |
|                | 35 Long Island   | 96           | 1,610,221  | 392,340                                 |  |       | 69,948                  | 58,780   |       |                   |                 |       |   |  |     |
|                | 36 Mohawk and Hudson   | 17           | 1,317,893<br>303,658   |   |  |       | 42,242                  |          |       | 34,666            |                 |       |   |  |     |
|                | 37 Saratoga and Schenectady  |              | 640,800  | ******                                  |  |       | 28.043                  |          | 1     | 32,646            |                 |       |   |  |     |
|                | 39 Syracuse and Utica  | 53           | 1 115 807  | none.                                   | 16 000   | 691   | 163,701                 |          |       |                   |                 |       |   |  |     |
| ****           | 40 Tonnawanda  | 43           | 797 339  | none.                                   | 10,000   |       | 76,227                  |          |       |                   |                 |       |   |  |     |
| ****           | 41 Troy and Greenbush  |              |  |   |  |       | 10,000                  |          |       | ,                 | 10,000          |       |   |  |     |
|                | 42 Troy and Saratoga   | 25           | 475 801  |   |  |       | 44.325                  | 21,000   |       | 38,502            | 9,971           | 21    |   |  |     |
| e Militer      | 43 Utica and Schenectady   | 78           | 2,168,165<br>3,200,000   | none.                                   | 20,000   | 100   | 277,164                 | 180,000  | 9     | 331.932           | 199,094         | 8     |   |  |     |
|                | 44 Camden and Amboy  | 61           | 3,200,000  | 101101                                  | 20,000   |       | 682,832                 | 383,880  |       | 784,191           | 404,956         |       |   |  |     |
|                | 45 Elizabethtown and Somerville  | 26           | 500,000  |   |  |       |                         |          |       |                   |                 |       |   |  |     |
|                | 46 New Jersey  | 34           | 2.000,000  |   |  |       |                         |          |       |                   | 1               |       |   |  | .   |
|                | 47 Paterson  |              | 500,000  |   |  |       |                         |          |       |                   |                 | 6     |   |  |     |
| Penn.          | 48 Beaver Meadow   |              | 1.000.000  |   |  |       |                         |          |       |                   |                 |       |   |  |     |
|                | 49 Cumberland Valley   | 46           | 1,250,000  |   |  |       |                         |          |       |                   |                 |       |   |  |     |
| ****           | 50 Harrisburg and Lancaster  | 36           | 860,000  | 645,929                                 |  |       |                         |          |       |                   |                 |       | 77,538                                  | 9,988  | 3   |
| ****           | 51 Hazleton branch   |              | 120,000  |   |  |       |                         |          |       |                   |                 |       |   |  |     |
| ****           | 52 Little Schuylkill   |              | 900,000  |   |  |       |                         |          |       |                   |                 |       |   |  |     |
| ****           | 53 Blossburg and Corning   |              |  |   |  |       |                         |          |       |                   |                 |       |   |  |     |
| ****           | 54 Mauch Chunk   |              |  |   | ******   |       |                         |          |       |                   |                 |       |   |  |     |
| ****           | 55 Buck Mountain<br>56 Minehill and Schuylkill Haven   |              | 72,000   |   | P 010  |       |                         |          |       |                   |                 |       |   |  |     |
| ****           | 57 Norristown  | 191          | 396,117  | 25,000                                  | 7,019  | 90    |                         |          | 120   | ******            |                 | 12    | •••••                                   | *****  |     |
| ****           | 58 Philadelphia and Trenton  | 30           |  |   | ******   |       |                         |          |       |                   |                 |       |   | *****  | 0   |
|                | 59 Pottsville and Danville   | 291          | 1 500,000  |   |  |       | ******                  |          |       |                   |                 | ****  | ******                                  | *****  |     |
|                | 60 Reading   | 94           | 1,500,000<br>9,457,570   | 7.447 570                               | 40 900   | 50    |                         |          |       | 597 613           | 343 511         |       |   |  |     |
|                | 61 Schuvikill vallev   | 10           | 1,000,000  | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 1  |       |                         |          |       | 1                 | 1               | 1     |   |  | 1   |
|                | 62 Williamsport and Elmira   | 25           | 1,000,000<br>400,000   |   |  |       | 20,000                  |          |       |                   |                 |       |   |  | إ   |
|                | 63 Philadelphia and Baltimore  | 03           | 14.400.000   |   |  |       | 43.043                  | 1200.000 |       |                   | 1210.000        |       |   |  |     |
| Delaw're       | 64 Frenchtown  | 16           | 600,000  | 1,153,709                               |  |       |                         |          |       |                   |                 |       |   |  |     |
| Maryl'd        | 65 Baltimore and Ohio. (1st Oct.)  | 188          | 7,742,410  | 1,153,709                               |  |       | 575,235                 | 279,402  |       | 658,620           | 346,946         |       | 738,603                                 | 374,769  | 2   |
| ****           | 66 Baltimore and Washington  | 38           | 1,800,000  |   |  |       | 177,227                 | 71,691   |       | 212,129           | 1104,529        |       | 208,813                                 | 95,094   | 4   |
| ****           | 67 Baltimore and Susquehanna.  | 58           | 3,000,000  |   |  |       |                         |          |       |                   |                 |       |   |  |     |
|                | 68 Wrightsville, York and Gettysburg   | 124          | 500,000  |   |  |       |                         |          |       |                   |                 |       |   |  |     |
| Virginia       | 69 Greensville and Roanoke   | 18           | 284,433  | 37,544                                  | 2,000  | 100   |                         |          |       | 25,368            | 6,074           | 3     |   |  |     |
| ****           | 70 Petersburg 71 Portsmouth and Roanoke  | 63           | 969,880  | 63,000                                  | 7,690  | 100   |                         |          |       | 122,871           | 72,898          | 6     |   |  |     |
| ****           | 70 Richmond Frederickship and Determen   | 781          | 1,454,171  |   |  |       |                         |          |       | 105 045           | or cos          |       |   |  | •   |
| 1111           | 72 Richmond, Fredericksb'g and Potomac.<br>73 Richmond and Petersburg.<br>74 Winchester and Potomac.   | 76           | 700,000  |   |  |       | ******                  |          |       | 100,243           | 00,088          |       |   |  |     |
| ****           | 74 Winchester and Potomas  | 32           | 500,000  |   |  |       | ******                  |          |       |                   |                 |       |   |  | •   |
|                | 75 Raleigh and Gaston  | 841          | 1 360 000  |   |  | 1     |                         |          |       |                   |                 |       |   |  |     |
|                | 76 Wilmington and Raleigh.   | 161          | 1.800,000  |   |  |       |                         |          |       |                   |                 |       |   | ******   |     |
| S. Car.        | 77 South Carolina  | 136          | 2,000,000  |   |  |       |                         |          |       |                   |                 | 9     |   |  | •   |
|                | 78 Columbia  | 66           | 5,671,459  |   | 34,410   | 75    | 201 464                 | 77 450   |       | 539 971           | 140 100         |       |   |  | •   |
| Georgia        | 179 Central  | 1901         | 2,581,723  | 0                                       | 20.510   | 100   | 201,464<br>227,532      | 93 190   |       | 328 49            | 180 704         |       |   |  | 1   |
|                | 80 Georgia   | 1471         | 2,650,000  |   | 20,010   | 1.00  | 248,026                 | 158 90   |       | 248 006           | 147 59          | 1     |   |  | •   |
|                | 81 Montgomery and West Point   | 89           | 500,000  | 170.000                                 | )  | 100   |                         | 1        |       | 35,000            | 15,000          |       |   |  |     |
| Kent'ky        | 182 Lexington and Ohio   | 40           | 450,000  | )                                       |  | 1     |                         |          |       |                   | 15,000          |       |   |  |     |
| Ohio.          | 83 Little Miami  | 40           | 400,000  |   |  |       |                         |          |       |                   | X               | 1     |   |  |     |
|                | 84 Mad river   | 40           | 152,000  |   |  |       |                         |          |       |                   |                 |       | 24,984                                  | 3.28   | Ol  |
| Indiana        | . 185 Madison and Indianapolis.  | 56           | 212,000  | 50,000                                  |  |       | 22,110                  | 8,639    | 8     | 39,031            | 10,065          | 94    |   |  | .1  |
| Canada         | 86 Champlain and St. Lawrence  | 15           |  |   |  | 1     |                         | 12,000   |       | 58.000            | ) 24.000        |       |   |  | . 1 |
|                |  | 4717 11      | The state of the s |   | 1157 1630                                      | 1000  | The same of the same of | 161/164  |       | 1 1 1 1 1 1 1 1 1 | 1               | 100   |   | BUT AND AND AND ADDRESS OF THE PARTY NAMED IN COLUMN TWO ADDRESS OF THE PARTY NAMED IN COLUMN TO ADDRESS OF THE PARTY NAMED IN | ø   |

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espondents will oblige us by sending in their rications by Tuesday morning at latest.

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## AMERICAN RAILROAD JOURNAL.

PUBLISHED BY D. K. MINOR, 23 Chambers street, N.Y.

# Saturday, May 2, 1846.

# Western and Atlantic railroad, Georgia.

The following extract from a letter, dated Atlanta, Ga., April 16, '46, and the notice accompanying it, contains information very useful to those who desire to reach the interior of Georgia, Tennessee, or Alabama. The fact stated in the letter, that the postnity. Why is it that this officer refuses to give the important road of 80 miles? Can any one answer us? It appears to us that a more liberal, or rather ment towards railroad companies—pay them in proportion to the service rendered—allow them a fair compensation for their increase of speed, and greater regularity of delivery—that is all they ask.

"I send you, herewith, says the writer, an advertisement of this road, which with that of J. Edgar Thomson, for the Georgia road, will give all the neeessary information for travellers who desire to pass over and beyond these roads. The South Carolina miles, form a continuous line of 388 miles from Charleston to the interior of Georgia-one of the 5 miles more in a few months, and will probably reach Cross Plains 100 miles from its commencehave been expended by the state, on this work, and it is destined to reach Chattanooga on the Tennessee this year there will be another line connecting this point with the seaboard, viz: the Macon and Western railroad, of 101 miles long, and the Central railroad, 190 miles, and thus forming another continuous line at the end of this year of 376 miles.

"There is an interesting fact connected with the Western and Atlantic railroad. The postmaster sengers from the northern and eastern cities can reach all the places mentioned in my advertisement ahead of the mail."

The following is the notice referred to:

The Western and Atlantic Railroad .- This road is now in operation to Oothcaloga, a distance of 80 miles, and connects daily (Sundays excepted) with he Georgia railroad.

From Kingston, on this road, there is a tri-weekly ton, Huntsville, Decatur and Tuscumbia, Alabama, and Memphis, Tennessee.

for Chattanooga, Jasper, Murfreesborough, Knoxville and Nashville, Tennessee.

This is the most expeditious route from the east to any of these places.

CHAS. F. M. GARNETT, Chief Engineer.

Atlanta, Georgia, April 16th, 1846.

### Railroads in Ohio.

We have received the following reply, to a letter of inquiry on the subject of railroads, in Ohio, from an intelligent gentleman, and warm friend of the cause, residing in Cleveland. His letter is accompanied by a letter sheet pen and ink map of the state, upon which he has very accurately sketched the canals and railroads, and which we should like tion, remarks, and views, but cannot, though we are greatly obliged to him for it.

Few people indeed are aware of, or can realize, master general has refused to put the mail upon this ion has done as much in the construction of canals, plied by the Mad river and Little Miami road, deserves the attention of the business commu- in proportion to its resources, or population, as Ohio. We shall give a list and description of them herepeople the advantage, in the mail service, of this after, but, as it is truly remarked by our correspondent, when speaking of canals as a means of communication, "they are far behind the spirit of the age," a more just, course should be adopted by the departand the people of Ohio must now adopt the more recent and more efficient system of railroads, if they would realize the full benefits of their unparalled position. The views of the writer in relation to the land, or the immediate interests of those sections of stated what we have already done, I will procerned. A railroad to Columbus will doubtless benefit Cleveland more, and a larger number of the railroad of 136 miles, the Georgia railroad of 172 population of Ohio, than a road to Sandusky, at the miles, and the Western and Atlantic railroad of 80 present time; and it is therefore much more likely to be built, but it occurred to us, that by directing the energies of the people of that region to those most important lines for freight, as well as travel, parts of the great western line, which must, at no disnow in the Union. The Western and Atlantic railroad is owned exclusively by the state of Georgia, cago and the West, more would be effected in the way which would leave all Michigan open to, and indeed ficult to be broken or resisted, when this direct western river, 140 miles. At this place, (Atlanta) a junction line shall, as it must, be completed. We are quite is formed with the Georgia railroad. At the end of convinced, however, that, under the circumstances, it will be easier to construct the road to Columbus than support the road well; yet we are very desirous to general has refused to put the mail on it, and pas- a road in the direction of Chicago, the precise route be eventually connected with the New York and Eric at one end, and Mr. Whitney's Oregon road, when built, at the other, forming in a measure a base line into which all the roads across the states, from Southwesterly to Northeasterly, will pour their rich freights, as well as the mighty west.

SIR-Your favor of the 14th ult. is received. line of stages, which leave on the arrival of the cars, and I hasten to reply. To make myself the on Tuesday, Thursday and Saturday, for Warren- better understood, I have sketched a map of the internal improvements and navigable waters of Ohio, which, though not strictly correct On the same days, the stages leave Oothcaloga in detail, is nearly so, at least sufficiently correct for my present purpose. On the east, you will perceive, we are tolerably well supplied with the means of transportation by the Ohio river and the Ohio canal and its branches, on the north by the Wabash, and Erie canal, and lake Erie, on the west by the Junction and Miami canals, and on the south by the Ohio river .-Although these modes of conveyances are far behind the spirit of the age, they are far better than nothing; our state is yet in its infancy, and they must answer the purpose until we have become old and rich enough, to supply their places by time and space annihilating railways; these we have already commenced. exceedingly to give to our readers with his descript they are represented upon the map by the full drawn red lines. The tier of counties, of which Sandusky, Tiffin, Finnley, Kenton, Bellfontain, Urbana, Springfield, Xenia, Lebanon, the extent of the Ohio canals. No state in the Un- and Cincinnati are the county towns, are suproads; and Richland county and a part of Huron by the Mansfield and Sandusky road. These roads, it is true, are not yet completed. yet there is no doubt but that they soon will be; the first, however, before it can do a heavy business, and do it with dispatch, must be rebuilt, the latter will be finished its entire length in the course of next month, and is a good advantages of the two routes, to Sandusky or to road in general and capable of sustaining an Columbus, are undobutedly correct so far as Cleve- average speed of 20 miles an hour. Having the state through which the roads will pass, are conceed to state what we have tried to do. The "Ohio railroad" was commenced about 1838, and after nearly completing the superstructure from Manhattan to Huron, 60 miles, the company failed, and almost the entire original outlay is a dead loss, even though the work should be resumed to-morrow. The superstructure is laid upon piles standing, from 6 inches to 15 feet above the surface and already conhaving no private stockholders. It will be extended of retaining the business of the west, and south of siderably decayed; a very large portion of the the line to Chicago, than by the line to Columbus, grading was to be embankment, none of which has been done. The superstructure was laid ment by the end of the year. More than \$3,000,000 almost connected with the line through Canada; by for a seven foot track, (which no one would which connections and associations will be found dif think of preserving, under present circumstances,) and its removal would cost as much as the small amount of excavation which has been done; the items of clearing, right of way to Sandusky, because it will connect the two principal commercial cities with the political capital of something if the same location should be prethe state, and pass through a region of country, the served, the policy of which is at least doubtful. way business of which alone, in a few years, will For that road I felt a deep interest, always thought it an important link in the learn that early measures will be taken to construct great chain between the east and west, and though my efforts were feeble, I fought for we do not pretend to indicate, but a road which shall it two years and bled too. If Cleveland had taken the interest, in proportion to her power, that her little neighbor Ohio city did, or had made the same exertion that she is now ma king for the Cleveland and Columbus road, 1 have not the least doubt but that the iron horse The writer says under date of Cleveland, April 11; would have this day been whirling from here

to style it, than others, see her influenne still more circumscribed by the extension of the the Pacific ocean. But I am running wild with my speculations; I only intended to explain to you why I consider it of more imporself, to connect Cleveland with Columbus than with Sandusky at this time. As regards the present means of communication between the several points, Cleveland has good steamboat communication with Sandusky, eight or nine months in the year, in the shortest possiwith Columbus eight months, at a distance exper cent. As regards the country through west and the southwest also. which the two routes pass, the Sandusky passes through Charleston, Vermillion, and Huron to cation to such length, for the subject is so vast, facilities for shipping produce are nearly as come lost in attempting to trace it through good as at Cleveland, and I believe the freights are in fact the same at each to and from Buffalo, and as it would require one additional rechipment for all property destined for the lake trade to transport it upon the railroad, very little could be expected to take that mode of conveyance. Not so the route to Columbus; for the counties of which Medina, Wooster, Ashland, Millersburgh. Bucyrus, Marion, Delaware, Mt. Vernon, Marysville, and Columbus are the county towns, are destitute of all sufficiently large, and during a time long enough, to means of transportation save by wagons upon test properly the practical merit of the proposed common, or rather uncommonly bad roads. Columbus, it is true, can send her produce to Cleveland by canal, but you know well how to appreciate the difference between 232 miles by canal and 140 or 150 by railroad!

This region is second to none in the state in productiveness, and I leave it for you to judge how much of its trade would be secured to a expensive to be generally adopted; the consequence good railway passing through Mansfield, with has been that, on most of the railroads now constructhe branches to Wooster, Millersburgh, Mt. ted, oak sleepers have been used in their natural Vernon, and Marion. The road from Colum-state. These are generally of large dimensions. bus to Xenia or Springfield is located, and I believe the full amount of stock is subscribed, so that it is safe to consider that the chain will be complete from Cleveland to Cincinnati, erally adopted; oak sleepers are now generally aas soon as it can be built from Cleveland to Columbus. Besides these reasons, the failure in France. of the "Ohio railroad co.," has affected the The well known way of carbonizing timber pre-

much influence upon works to the east and west until the New York and Erie shall be com- of the chairs and rails, have proved as yet the very of it, that the chain between New York and pleted to Dunkirk. These are some of the best and most practical plan of keeping timber sound Chicago would have already been completed. considerations that have led me to espouse the for a stated time, say ten or twelve years. To ar-Cleveland had been so well fed, at the state cause of the "Cleveland and Columbus line," rive at this result, great care must be had to fell and federal cribs, that she felt secure in her and to believe that it is the true policy of timber in proper season; the timber employed for commercial prosperity, and was only aroused Cleveland to exert herself to the utmost to fects; the sap must be completely separated; particfrom her lethargy, when the Maumee canal on complete it immediately. One good paying ular care must be had not to cause any splitting the west and the Erie extension canal on the road once built, and the system will be extended when boring holes for fixing the chairs, the top east began to make inroads into her trade. She without difficulty. I may be wrong in my con- part of the sleepers should be so disposed as to turn now sees the Sandusky improvements, and clusions, we are all apt to place too much out the water, and the under part laying on the the Canada improvements, threatening to take weight upon arguments in favor of the cause away her travel, and some of her sons more we espouse, and too little upon those against by its two extremities. far-seeing, or visionary, as you may be pleased it, if I am wrong in this case I shall esteem it a favor in you to put me right.

You will perceive a broken red line drawn Baltimore and Ohio road, and Pennsylvania through Elyria, Norwalk, Bellevue, Lower improvements, to Mansfield and onward to Sandusky, and Napoleon. This route I would prefer to the route through Sandusky for the cheap, they calculate on renewing every seven great east and west chain; first, because it would come less into competition with the lake, tance to Cleveland, of more importance to the and second, because it would secure a heavier state, and of more importance to the road it- way business. This road I hope soon to see name of marine glue, and used chiefly for the timber built, as well as the Cleveland and Columbus employed in the construction of floating break-waroad, and to see both built upon the broad gauge of the New York and Erie road. The Canada road will be built; and more, it will secure a large share of the Michigan and northwest trade, notwithstanding all our ble distance; and canal boat communication efforts to prevent it, and I do not think it worth while to waste our energies in the attempt, but ceeding the railroad route by more than 50 let us beware lest she encroach upon the far

Excuse me for spinning out this communi-Sandusky, at all of which points the present and its influences so complicated, that we bethe future. Respectfully yours,

J. H. SARGEANT.

# Foreign Correspondence

32 Rue Richer, Paris, April 1, 1846.

answer the call, made in your Journal of January 10th, respecting the preservation of timber.

Various experiments for the preservation of timber have been made in France, but none on a scale process. The Kyan, Moll, Briant, Payne, Boucherie, process, have been tried; they all answer well enough as physical experimentations, in the possibility of acting on the fibres of the wood to which they were separately applied, but none are practical enough to compensate for extra expenses incurred. In other words, these processes are not simple enough, but much too In Belgium, essays have been made of various plans of preserving timber for these four or five years, superior as to warrant the expediency of being gen- means of stopping a train. dopted, but of smaller dimensions than those used

pockets of many and created a prejudice against vious to its being laid on or in the ground, together Travanet, of which I have obtained excellent results,

to Detroit, and its success would have had so that route that it will be difficult to overcome, with proper care in boring or cutting for the fixing ground slightly hollowed, so as press on the ground

In France, the sleepers have generally the following dimensions: length 2m. 50c. width 25c. thickness 12c5.\* In Germany, they are indiscriminately pine, white-wood and oak sleepers, but particularly pine timber. No artificial means of preserving timber is employed; timber in that country being very

I should not fail mentioning another mode of preserving timber, practised in England, under the This English company, patented also in ters. France, has had executed for the French government, the last year, a specimen of the invention in the formation of a ship shelter at the Sciota on the Mediteranean; so far the application of this substance to break-water has proved satisfactory. The same company offers its marine glue as a means of preserving sleepers on railroads; but I have not heard of any experiment being made.

Railway share speculation is still here the mania of the day, and much is done at the exchange on their value, although it is generally considered that the French market is overmuch gorged with railway stock.

Shares in forges and furnaces are in better demand, and command at this time high prices; some shares have run up to four times their par value.

The mania for railway speculations has not abated in France, notwithstanding the adjudication of My dear Sir-In the midst of a great pressure of the great northern and Lyons roads; as many compabusiness, I seize the first leisure moment I have to nies have formed anew to bid for the concession of Lyons and Avignon and the Bordeaux and Cette railroads, not speaking of smaller lines which have respectively called out several competing companies. There are at this moment 22 companies organized with a capital of 110 millions of francs for the Lyons and Avignon railroad; it is reckoned that should they come to an understanding, previous to the adjudicaand Mergary's plans, with as many other varieties of tion day which is not yet made known by the government, each company, or rather, each stockholder may hope to obtain 5 per cent. of the shares subscribed.

Nothing new about the atmospheric system of railway; some practical partial experimentations will be made near Paris this season, I will endeavor to inform you of its result.

We have had to deplore two serious accidents of late on our railroads; one on the Lyons and St. Etienne, the other on the Rouen railroad. Several lives have been lost, and several persons seriously injured. These accidents have originated from the failure in none have given satisfaction, or have proved so much the police of the roads, and in the absence of proper

While on this subject, I will mention to you that I have of late experimented on the Versailles railroad which has great ascents and heavy grades, a new system of breaks patented by M. M. Noseda & it being of powerful effect, requiring but a very small effort, acting in either way by means of a gear, and Carolina railroad lines (three daily) of stages calling to its aid the rotary motion of the wheels or owned by Messrs. Peters, Beman and Ellsworth-250 francs instead of 500 francs, that of the Bir- Newman-distance 136 miles. mingham breaks. Yours most truly,

LE MAJOR POUSSIN.

Montgomery, (Ala.) and West Point Railroad

In reply to our inquiries in relation to this and other railroads in Alabama, and their probable connections, we have received the following interesting communication from L. P. Grant, Esq., a gentleman who has been long devoted to the advancement of the system, in the south, of which he speaks with so the system, in the south, of which he speaks with so of leaving and arriving at Macon not known. Dismuch familiarity. It is hardly necessary for us, yet tance 145 miles. we must not lose the opportunity, to say that we are greatly obliged to him for this evidence of his desire obtain information in relation to existing and proposed railroads in the different states, as it enables us to speak with confidence in relation to their present condition, if not in all cases of their further progress and future prospects.

We shall be greatly obliged to other gentlemen for similar favors, in relation to other sections of the Union.

The writer says:

You ask, "What are the prospects of an extension any way point. of our road?"

We have 40 miles in operation, from Montgomery to Chehaw, and 7 miles, extending from Chehaw to Moore's, graded and bridged. This portion, for which the iron spikes, etc., are provided and part of the superstructure laid, will be completed and opened about the first of June. From Moore's station to West Point-a distance of 42 miles-about 10 miles of graduation was done previous to the bankruptcy of the old company; but this work was done on the West Point end, and is, of course, of no avail at present. My estimate of the cost of road complete from Moore's station to West Point, is \$340,000 .-The company are now negotiating for a loan of part of the amount required, which, if obtained, will enable us to push on vigorously towards the desired most important. The former was graded about 27

The importance to the company and the public at plainly apparent that I need hardly expatiate upon it A link in the great chain connecting the Atlantic thoroughfare of a large travel and the route of the great mail. The line, for its entire length, passes for many years to come, is considered doubtful. through a good cotton-growing region, and terminates productive counties in Georgia-insuring a large local travel and a profitable freighting business.

and class:

1 Ballwin & Whitney-2d class improved, six wheeled, connected.

1 Baldwin & Whitney-3d class improved, six wheeled, connected.

1 Buri's—3d class, six wheeled, single drivers.
1 Brook's—3d class, six wheeled, single drivers.
1 Rodgers, Ketchum & Grosvenor—2d class, six

wheeled, single drivers.

Rates of freight on forty miles: 75 cents per bale of cotton. barrel.

.. cubic foot measurement goods. Rate of passage: 51 cents per mile. Present schedule—Passenger trains:

A.M. Leave Chehaw.....121 P. M. Arrive at Montgomery ..... 4

Stage schedule:

Leave Chehaw ......... 12 M. Arrive at Atlanta 3 P. M. nextday.
Leave Atlanta 9 A. M.
Arrive at Chehaw 12 M. next day.

The Central stage line (one daily) runs between Chehaw and Macon, Ga., via Columbus. This line is owned by Messrs. Mastain, Mott & Griffin:

Leaves and arrives at Chehaw at 12 M. Time

From Montgomery, the great mail is transported to Stockton (the head of tide on Mobile bay) in covto aid the Journal. It is the way in which we like to ered wagons during the winter months, and in fourhorse coaches during the summer. Distance 160 miles. Wade Allen, contractor.

> Leave Montgomery, 6 P. M.; arrive at Montgomery, 6 A. M.; time from Montgomery to Mobile, about 40 hours; exact schedule for arriving and leaving Mobile not known.

> A tri-weekly line of stages run between Montgo mery and Tuscaloosa. Exact schedule not known. No stages run in connection with our road from

The hotels of Montgomery are:

The Montgomery Hall, by Wilson & Wyman. The City Hotel, .... by Dr. Clopton. The Central Hotel,... by Mr. Staples.

All good houses and well sustained.

At Chehaw, there are two houses-both comfort able.

If you will now take up a map of Alabama, I will endeavor to trace out for you the old projected improvements in the state, and those more recently chartered. The only railroads in operation in the state, are the Decatur and Tuscumbia and the Montgomery and West Point. Of the old projected improvements, not in operation, the Selma and Tennessee and the Pensacola and Montgomery, are the miles at the time of its suspension. The latter was graded about 15 miles out from Pensacola when the looked forward to with much certainty by some.

The Selma and Tennessee road was designed to nessee at Gunter's landing. Its further prosecution

A railroad was commenced and nearly graded and the iron taken up.

would have been of real and others of doubtful utility points would be 16 miles less than from Charleston. to the stockholders-they shared one common fate of suspension and bankruptcy.

The express mail, Georgia railroad, and South crossing the Sand mountain, terminate at Gunter's landing, on the Tennessee

The South Western Railroad .- To commence at shafts at will. On that account this break is called run between Chehaw and Atlanta, the head of the Montgomery, and pursuing nearly a due west course self acting (auto moleur). The cost of the break is Georgia railroad-via West Point, Lagrange and to the western line of the state, connect with the ex tension of the Vicksburg, Jackson and Brandon road.

> The Southern Railroad .- To commence on the Chattahooche river at Gerard, (opposite Columbus, Ga.) and terminate at some point on the Alabama river, or connect with the Montgomery and West Point road.

> Charters for the two last mentioned were obtained at the last session of the legislature. The charter of the Coosa and Tennessee road was obtained at a previous session.

> The Coosa and Tennessee railroad is designed to connect the Tennessee river at Tuscumbia, below the Muscle shoals, with Charleston and Savannah, by railroads and steamboat navigation. It would seem at a first glance at the map, to be an important and desirable link; but when compared with the upper route, via Chattanooga, it appears to me to be saddled with many disadvantages. The point at which these lines diverge going westwardly, is Kingston, (the nearest point on the Western and Atlantic railroad to Rome, on the Coosa,) and the point at which they again unite is at Gunter's landing, on the Tennessee.

The upper route will consist of the extension of the Western and Atlantic railroad about 68 miles from Kingston to Chattanooga, about 20 miles of which is constructed and in operation; -maximum grades 33 feet per mile. Thence by steamboat about 130 miles, down the Tennessee to Gunter's landing. On this route but one transhipment would occur between Kingston and the head of the Muscle shoals.

The lower route would consist of a branch road of 17 miles, from Kingston to Rome; thence steamboat down the Coosa, about 120 miles, to the mouth of Wills creek; thence railroad, 40 miles, to Gunter's landing, with a maximum grade of 80 feet per mile. On this route, three transhipments would occur be tween Kingston and the head of the Muscle shoals. The distance in favor of the lower route is about 25 miles.

The only bad feature in the upper route is found large, of the early completion of this road, is so enterprise was suspended. Its completion is still in the obstructions occurring in the Tennessee, a few miles below Chattanooga. I have conversed with intelligent men intimately acquainted with the nacities with those of the Gulf, it will always be the connect the Alabama river at Selma with the Ten- ture and extent of those obstructions, who coincide with Col. S. H. Long, that a single dam and lockage would render the navigation good and safe.

The trade of the Tennessee valley will be well acon the western border of one of the most populous and from Marion to Cahawba-length, 27 miles. This commodated with one line. The upper line is now shared the fate of the more important. Another, completed to the Oostanaula, and is in a state of styled the Wetumpka and Coosa railroad, designed, progression. The completion of this road to Chat-We have now five engines, of the following make I believe, to connect Wetumpka with the navigable tanooga will probably be anticipated by the extension waters of the Coosa, above the "Ten Islands," was to Nashville on the north, and by a road from Tusgraded for a considerable distance, but shortly abar- cumbia to Memphis on the west, connecting the Atdoned. The Mobile and Cedar Point road was lantic ports of Charleston and Savannah with the graded for a portion of the distance, and the track Tennessee, Cumberland and Mississippi rivers. Dislaid on a few miles, but subsequently abandoned, tance from Charleston to Memphis by railroads and steamboat navigation, would then be about 640 miles Alabama has truly been unfortunate in her im- of the former and 130 of the latter. From the same provements. Commenced in the piping times of '35 to Nashville by railroad entire, would be about 575 and '36-some of which, had they been completed, miles. Distance from Savannah to either of these

Of the Georgia improvements, only two have been completed-the Georgia railroad, 1711 miles from The more recently projected improvements are as Augusta to Atlanta, and the Central railroad from Savannah to Macon, 1904 miles.

The Coosa and Tennessee Road .- To commence at The Macon and Western railroad from Macon to the mouth of Wills creek, on the Coosa river, and, Atlanta, 101 miles, is now being pushed rapidly, and will be completed in all of the ensuing summer.

to complete to Chattanooga.

At the last session of the Georgia legislature, the following new charters were granted:

Columbus, diverging about 40 miles above Macon.

A branch from the same to West Point, diverging about 58 miles above Macon. The former branch to be built before the latter shall be commenced.

The most important charter asked for was defeated by the combined efforts of Savannah, Macon and Columbus, viz: from Atlanta to West Point. The construction of this link is more imperatively called for than any other in the southern country. It would, with the completion of the Montgomery and West Point road, perfect the great mail route from Charleston to Montgomery. It would connect the Alabama and Tennessee rivers by a continuous line of railroad; and by a short branch of thirty miles, from West Point to Columbus, would give that city railroad facilities, and-what she so much desires-the most direct connection with upper Georgia and Tennessee, without injury to her present cotton trade, which would be most disastrously affected by a direct connection with Macon.

Railroad Passenger Trains Leaving Boston

Daily, Except Sundays.
We copy the annexed list of departures from Boston by railroad and steamboat, from the Traveller. It will be found exceedingly useful to travellers: and interesting to many, who like to know how such matters progress, even though they do not travel much. For the convenience of our readers we shall keep it standing, and endeavor to correct it as changes are made.

| PASSENG       | ER TRAINS LEA       | IVE BOSTON DAILY.  |
|---------------|---------------------|--|
| For           | Depot.              | Hours,   |
| Albany        | Worcester           | 71 a.m., 71 p.m.   |
| Andover       | Me. Extension       | 71.111 a.m. 21.41. 6 pm.   |
| Concord, Ms.  | Charlestown .       | 7 a.m. 1½ p.m.<br>7, 11 a.m. 5½ p.m.                               |
| Concord, NH   | Lowell              | 7, 11 a.m. 51 p.m.   |
| Dedham        | Providence          | 8 a.m. 121, 31, 61 p.m.  |
| Dover         | Me. Extension       | 71 a.m. 21, 41 p.m.  |
| Fitchburg     | Charlestown .       | 7 a.m. 14, 5 p.m.  |
| Fresh Pond .  | **                  | 6, 10 a.m. 11 41 p.m.  |
| Fall River    | Providence          | 81 a.m. 31 p.m.  |
| Hartford      | Worcester           | 71 a.m. 4 p.m.   |
| Haverhill     | Me. Extension       | 71,111 a.m. 21,41, 6 pm.   |
|               |                     | 7, 9, 11 a.m. 21, 51 p.m.  |
| Millbury      | Worcester           | 74 a.m. 4 p.m.   |
| Nashua        | Lowell              | 7, 11 a.m. 5½ p.m.<br>7½, 11½ a.m. 2½, 5½ p.m.<br>7½ a.m. 4½ p.m.  |
| Newburyport   | Eastern             | 71. 111 a.m. 21. 51 p.m.   |
| New Bedford   | Providence          | 71 a.m. 41 p.m.  |
| New Haven.    | Worcester           | 74 a.m. 4 p.m.   |
| Newton        |                     | 71,91, a.m. 11, 21, 41,61,   |
| 21011100 1111 | The wife in 1927 at | [8] p.m.   |
| Norwich       | at .                | 74, 84, a.m. 5 p.m.  |
| Plymouth      | Old Colony          | 74 a.m. 5 p.m.   |
| Portland      | Eastern             | 74 a.m. 21 p.m.  |
| - 44          | Me. Extension       | 71 a.m. 21 p.m.  |
| Portsmouth    | Eastern             | 71 a.m. 21, 51 p.m.  |
| Providence    | Providence.         | 74 a.m. 4 and 5 n.m.   |
| Reading       | Me Extension        | 74 a.m. 4 and 5 p.m.<br>74, 9, 114 a.m. 24,44, 6,                  |
| Tecaning      | 7-111               | [8p.m.   |
| Salem         | Eastern             | 71, 9, 111 a.m. 121, 21,   |
| Barem         | Edusioi III         | [34, 54, 64, 84 p.m.   |
| Somersworth   | Of Car Dayna        | 74 a.m. 24 p.m.  |
|               |                     | 71 am 21 41 nm   |
| S Braintree   | Old Colony          | 74 a.m. 24, 44 p.m.<br>74,104 a.m. 24,5, 7 p.m.                    |
| Springfield   | Worcester           | 74 a.m. 4 p.m.   |
|               |                     | 111 a.m. 51 p.m.   |
| Tannion       | ((                  | 71 am Ai nm  |
| Worcester     | Worcester           | 71 a.m. 41 p.m.<br>71 a.m. 11, 41 p.m.<br>7, 10 a.m. 11, 21, 5, 5- |
| Waltham       | Charlestown         | 7 10 a m 11 91 4 5   |
| At minimum    | Charlestown .       | [55 pm.  |
| Wohnen        | Lowell              | 8, 111 a.m. 3, 6 p.m.  |
| TT OUTUR      | - MONTH             | o, it a.m. o, o p.m.   |

STEAMBOAT TRAINS FOR NEW YORK tioned, will be extended to Cross Plains, 100 miles from Atlanta, in all this year, leaving about 35 miles Stonington .... Worcester. 81 a.m. Long Island ....

STEAMBOAT TRAINS FOR THE EAST.

A road from Macon to Columbus.

A branch from the Macon and Western road to olumbus, diverging about 40 miles above Macon.

A branch from the same to West Point, divergsteamboats for the Kenebec and Penobscot.

STEAMBOATS LEAVE BOSTON

| -1 | WARRING ALD DUA                      | THE BODION                          |
|----|--------------------------------------|-------------------------------------|
| 1  | For From                             | Days. Hours.                        |
| 1  | Bangor East, steamb, wf              | Tuesd'y, Frid'y, 3 p.m.             |
| 1  | Bath                                 | ( Wednesday ) 7 p.m.                |
|    | Gardin'r East. steamb. WI.           | Wednesday 7 p.m.<br>Saturday 5 p.m. |
| 1  | and End of T. wf                     | Tuesd'y, Frid'y. 7 p.m.             |
| Ч  | Hal'well   Foster's wf               | Tnesday 7 n.m.                      |
|    | Eastport. East, steamb. wf           | 6.0                                 |
| I  | St. John. East. steamb. WI           | Monday12 m.                         |
| I  | Hingham. Liverpool wf                | Daily 5 p.m.                        |
| 1  | Glo'sterT wf                         | Saturday 5 p.m.                     |
|    |                                      |                                     |
| i  | Portsm'b T wf                        | Wednesday (9a m                     |
| 1  | Dover \                              | Friday                              |
| 1  | PortlandCentral wf                   | Mon Wed Frid 4 nm                   |
| 1  | a various or or walklish was a see . | mon if continue pin.                |

The Bangor boat stops at Portland and at all the intermediate landings on the Penobscot.

FREIGHT TRAINS LEAVE DAILY

| From        |      | For   | At                |
|-------------|------|---|-------------------|
| Me. Exten.  | lepo | t Portl'd & way stat'ns 6                                 | a.m.              |
| Lowell      | . il | Lowell  | a.m.              |
| 44          | 46   | Nashua and Concord 2                                      |                   |
| Worcester   | u    | Worc. & way stations \ \ \frac{41}{m}                     | ,111 a.<br>6 p.m. |
| ££          | "    | Western railroad $\begin{cases} \frac{41}{6} \end{cases}$ | a.m.              |
| Providence  | 66   | Prov. & way stations 6                                    | n.m.              |
| 66          | 66   | N.Bedford & Taunton. 6                                    | p.m.              |
| Charlestown | 23   | Fitchburg & w. stations 9                                 | n m               |

Mansfield and Sandusky, Ohio, Railroad,

The following gratifying intelligence is from the Sandusky Clarion. We should have been delighted to witness the happiness of those honest industrious or twenty miles an hour, is so great that it either one till a better shall be substituted. alarms, or greatly exhilerates, those unaccustomed to such speed-and we admire the tact of the super- Columbus, they will find this, taking a steamintendent in thus making numerous early friends to boat hence to Sandusky, the most eligible the work. The Clarion says:

"Old Associations Renewed .- Twenty-four stages be driven as intended. years ago, when we commenced the publicatical, at least as having a very near relation entitled to the appellation of the Railroad to each other. We have seen with regret, City of the Lake. within a few years, the disseverance of these

take a ride, to view the road and visit our city. On Tuesday the cars came in with rising of 600 persons, principally Peruvians, Providence, 5 p.m. rising of 600 persons, principally 1 of orders, 5 p.m. with a portion of their neighbors from Greenfield and Sherman, starting from a place, we believe, on the railroad, called Pontiac, whose name we never heard before. We

> came down from New Haven; and on Thursday, six or seven hundred came down from Paris. It will be a joyful day when we shall, by the enterprize of this company, be placed within three or four hours' ride of the wealthy and flourishing town of Mansfield, 56 miles distant. That day we suppose to be but a month hence. At the same time it is expected a conveyance from Sandusky to Columbus in one day, and by day-light, will be established, by means of stages and the railroad."

> The Cleveland Herald also evinces the right feeling towards their enterprising neighbors of Sandusky. How much better such a course appears than that not unfrequently displayed between neighboring, or rival towns. We also like its hint to the people of Cleveland. It is to the point-" This is a free country"-at least in relation to the construction of railroads-or so think most of the citizens of New York. Yet they may not loose anything by "taking the hint" conveyed in the closing remarks of the Herald.

> "We perceive, says the Herald, that an accommodation train and an express passenger train are to leave each end of the road daily-distance 56 miles-fare by the first named train, \$1,25; by the other, \$1,75.
> From Mansfield a line of stages is to be

run to Columbus, and it is intended to go hundreds on their—at least to many of them—first through from the lake to the capital between railroad excursion. We can imagine few more ex- 6 o'clock, A. M. and 7, P. M. This we hilerating scenes, than "a first ride on a railroad." think will be a difficult matter to accomplish, The difference between travelling four or five miles but the route will undoubtedly be a popular

> When our citizens have occasion to visit channel to adopt, we presume, if the cars and

One or more trains start daily on the Cintion of the Clarion, the interests of this place, cinnati road for Tiffin, 36 miles, and which Oxford, Ridgefield, Peru, Greenfield and is likely to be completed within a year to New Haven, as well as the adjoining west Xenia, making a continuous line to Cincintier of townships, were considered, if not iden-nati. Our Sandusky neighbors will then be

A few enterprising men at Sandusky have interests, the disunion of sentiment, an es-done much to improve the town, and mean to trangement of feeling, and the diversion of do much more. They are entitled to great our business relations into other channels; but we are now happy in being able to anhibited in applying their means so judiciousnounce that old associations are revived, and ly. Unless other lake shore cities are up and so connected that they cannot be again broken doing, Sandusky will take precedency of asunder. This good work has been effected them, and justly so. If we feel so secure in by the construction of the Mansfield and San- our present position, as to suppose all exerdusky city railroad. The track is now com-tion unnecessary, or if we are so sleepy or pleted, and the cars are in daily operation stupid as to suppose that we can sustain our upon it to Paris, 36 miles. The citizens along the line have this week availed themselves of the invitation of Mr. Higgins, the agent and superintendent, to avery marked difference in their rent-rolls, rates now paid, or 100 per cent. advance.

This is a free country, and they can take but by the 17th or 18th without fail. either course they please—it is optional with them, either to halve their property or to double it. Which process would be the most agreeable, each man will judge for him-

Cleveland and Pittsburg Rallroad,

We have before us the report of Col. S. Dodge, engineer, on the survey and estimates of this road. As forming a connecting link between our city, the great lake trade and Benton and Salem: from these it follows the summit between the forks of Little Beaver Creek, and down the valleys formed by other runs, to the Ohio, at Wellsville. The distance is nearly 97 miles, and the estimated cost, to fit the road for use, \$1,394,068 27, with a T or H rail. The highest grades are rate the Port Huron and Lake Michigan rail. Salamander Safes, which was in the fire at the burnruns, to the Ohio, at Wellsville. The disfifty feet to the mile, and the smallest curves have fifteen hundred feet radius. The route possesses every advantage of location, and house yesterday afternoon—yeas 25, nays 13. offers an opportunity for the profitable investment of capital. The lake trade, which will, by this channel, be hereafter brought to Philadelphia, over the Central railroad, must be

SUPERINTENDENT'S OFFICE,

Rochester, April 22d, 1846. A. C. Flagg: Dear Sir—I hasten to inform you of a break in the canal, at 12 o'clock M., a to great perfection, being more easy to write with, few rods east of Bushnell's Basin, near the big embankment. There are some 25 or 30 rods, at a depth of about 80 feet, taken away, and as near as can be ascertained the culvert is also gone. I think it may take some eight or

also gone. I think it may take some eight or ten days to make the necessary repairs. I have already commenced repairs.

Very respectfully, yours,

D. WARNER, Supt.

The Break in the Canal.—A very large number of hands are engaged in repairing the break at Bushnell's, and rapid progress is and linkholders adapted for preserving Ink from

nesday, that the northern end of the Ohio canal is open and ready for navigation. The Herald states that there will be a probable interruption at Winchester (some 11 miles east of Lockburn, and 34 below Newark) until the Ist of May, in consequence of the failure of the contractor to complete the locks at that place, which are in a course of being rebuilt. We are happy to assure the Herald from a conversation with the energetic acting commissioner in charge of the eastern division of the public works, that the locks at Winches. The above safes are finished in the neatest manner, and can be made to order at short notice, of any size and pattern, and fitted to contain plate, jewelry, friars road, London, and sold by Booksellers and years and pattern, and fitted to contain plate, jewelry, friars road, London, and sold by Booksellers and stationers in bottles of various sizes, and may be had wholesale from the agents in Boston, New York, Philadelphia, Baltimore, Washington, Charleston, New Orleans, and St. Louis.

Mr. Wm. W. Rose, Wall-street, New York, is my general agent in the United States.

The above safes are finished in the neatest manner, and can be made to order at short notice, of any size and pattern, and fitted to contain plate, jewelry, friars road, London, and sold by Booksellers and pattern, and fitted to contain plate, jewelry, etc. Prices from \$50 to \$500 each. For sale by A. S. MARVIN, General Agent, Charleston, New York, Philadelphia, Baltimore, Washington, Charleston, New Orleans, and St. Louis.

Mr. Wm. W. Rose, Wall-street, New York, is my general agent in the United States.

between a depreciation of one-third from ter will be ready to pass boats, probably by rates now paid, or 100 per cent. advance. the 15th should the weather continue fine,

has been open for some time, and near the Wabash and Erie was ready for navigation on the 10th. From Piqua south, boats will Journal.

with a T or H rail. The highest grades are rate the Port Huron and Lake Michigan railroad company-yeas 12, nays 6.

The bill for the sale of the Southern railroad was ordered to a third reading in the

STEPHENS' RULING AND MECHANICAL Drawing Ink, for Engineers, Artists and Designers. This article will be found superior to the

STEPHEN'S WRITING FLUIDS.

These compositions, which have so remarkably extended the use of the STEEL PEN, are brought more durable, and in every respect preferable to the ordinary ink. In warm climates they have become essential.

They consist of a Blue Fluid, changing into an intense Black color.

A Patent Unchangeable Blue Fluid, remaining a

RICH & CO'S IMPROVED PATENT SALAMANDER SAFES.—Warranted free from dtampness, as well as fire and thief proof.

Paricular attention is invited

to the following certificates, which speak for themselves:

TEST No. 10. Certificate from Mr. Silas C. Field, of Vicksburgh,

Mississippi.
On the morning of the 14th ult., the store owned be able to pass from the 24th to the 28th of this month, in season to meet the current of business from the New York canals, which liquors, and other articles of a combustible nature, between our city, the great lake trade and the West generally, in connection with the contemplated central route through our state, this road assumes a vast importance. Commencing at Cleveland, the surveyed route passes through Newburg, Bedford, Ravenna, Beaton and Salem, from these it follows the surveyed route passes through Newburg, Bedford, Ravenna, Beaton and Salem, from these it follows the contained and the route open on the 16th. The amount of work done in the midst of which was one of Rich's Improved to the midst of which was one of Rich's Improved in the midst much filled up. The acting commissioner on this division has been unceasing in his exertions, and the public well understand that they are seldom misdirected.—Ohio State well merited.

Salamander Safes, which was in the fire at the burning of my law office, and several adjoining buildings in this place, on the 17th of November last, at about half-past one o'clock A. M. of that day. The building was entirely consumed; and I take pleasure in stating that my papers in said safe were preserved without injury. A receipt book which was in said safe, had the glue drawn out of its leather back by the heat, and the back broken; but the leaves of the book, and the writing thereon, were entirely uninjured; and some of the writing which was of blue ink, was also left wholly uneffaced and not in the least faded. Said safe was by the fire heated perfectly red hot, and I do not hesitate to ladelphia, over the Central railroad, must be immense, and will yearly increase. It opens also a direct channel to seven thousand miles of lake and river trade, through a country unexcelled for richness and fertility by any region of the globe.—Phil. N. American.

Breach in the Eric Canal, near Bushnell's Basin.—

This article will be found superior to the best Indian Ink for the above purposes. It does not smear with India rubber or wash off with water. It may be used on a plate or slab, with a camel's hair brush, diluting it with was asy, that said safe was by the fire or encrusts it. It may be used on a plate or slab, with a camel's hair brush, diluting it with was asy, that said safe is a perfect security against fire. But the safe tumbled over during the fire, and being heated red hot, the outer sheeting of the door became Busin.—

Sold in conical-shaped bottles, convenient for using from, without any stand, at 15 cents each.

John Barrane. could not be unlocked, and I had to have it broken open.

JOHN BATTAILE.

Benton, Miss., December 27,1845.

Still other Tests in the Great Fire of July 19, 1845.

The undersigned purchased of A. S. Martin, No. 1381 Water street, one of Rich's Improved Patent Salamander Safes, which was in our store, No. 54 Exchange place. The store was entirely consumed in the great conflagration on the morning of the 19th inst. The safe was taken from the ruins 52 hours after, and on opening it, the books and papers were found entirely uninjured by fire, and only slightly wet—the leather on some of the books was perched by the extreme heat.

(Signed,)
RICHARDS & CRONKHITE.

New York, 21st July, 1845.
One of Rich's Improved Salamander Safes, which 1 purchased on the 2d of June last of A. S. Marvin, 1381 Water street, agent for the manufacturer, was exposed to the most intense heat during the late number of hands are engaged in repairing the break at Bushnell's, and rapid progress is making. It is expected that the work will be finished, and that boats will be able to pass by Monday or Tuesday next.—Rochester American, Saturday.

Opening of the Ohio Canals.—We see it announced in the Cleveland Herald of Wednesday, that the northern end of the Ohio canal is open and ready for navigation. The Herald states that there will be a probable inter
The utmost possible care having been bestowed the Michael of the Scient Articles, so as to promise of the Scient Arti

New York, 21st July, 1845.

The above safes are finished in the neatest manner, and can be made to order at short notice, of any

BOSTON AND ALBANY. -WESTERN

1846. Spring Arrangement. 1846.
Commencing April 1st.
Senger trains leave daily, Sundays excepted
Boston 74 p. m. and 4 p. m. for Albany.
Albany 64 " and 24 " for Boston.
Springfield 7 " and 1 " for Boston.
Springfield 7 " and 14 " for Boston. Springfield 7

Boston, Albany and Troy:

Leave Boston at 7; a. m., arrive at Springfield at 12 m., dine, leave at 1 p. m., and reach Albany at 61 p. m.

64 p. m. Leave Boston at 4 p. m., arrive at Springfield at 8 p. m., lodge, leave next morning at 7, and arrive at Albany at 124 m.

Lesve Albany at 6‡ a. m., arrive at Springfield at i m., dine, leave at 1 i p. m., and arrive at Boston

m, dine, leave at 1½ p. m., and arrive at Boston 6½ p. m.
Leave Albany at 2½ p. m., arrive at Springfield at 8½ p. m., lodge, leave next morning at 7½ and arrive at Boston at 12 m.

The trains of the Troy and Greenbush railroad connect with all the above trains at Greenbush.
Fare from Boston to Albany, \$5; fare from Springfield to Boston or Albany, \$2 75.

Boston and New York, via Springfield: Passengers leaving Boston at 4 p. m., arrive in Springfield at 8 p. m., proceed directly to Hartford and New Haven, and thence by steamers to New York, arriving at 5 o'clock a. m.

For Buffalo: the trains for Buffalo leave Albany at 7½ a. m. and 7 p. m., arriving at Buffalo at 8 a. m.

at 74 a.m. and 7 p.m., arriving at Buffalo at 8 a.m. and 8 p.m. next day. Returning, arrive at Albany at

and 8 p. m. next day.

4 a. m. and 4 p. m.

New York and Boston, via Albany: the trains from Boston arrive at Albany in season for the 7 o'clock boats to New York. Returning, the boats, leaving New York at 5 and 7 p. m., reach Albany at 5 a. m., in ample season for the morning trains to Boston.

Steamboats also leave Albany at 7 a. m. and 5 p. m. Steamboats also leave Albany at 7a, m. and 5p. m. and stop at the usual landing landing pirces upon

The trains of the Springfield, Hartford and New Haven railroad, connect at Springfield, and passengers from Albany or Boston proceed directly on to Hartford and New Haven.

Montreal: through tickets to Montreal may be

Montreal: through there is to Montreal may be obtained in Boston, by which passengers may proceed to Troy, and thence by stage via Chester, Elizabeth, etc., and in the season of navigation by canal to Whitehall, and thence by the splendid steamers of Lake Champlain to St. John, via Burlington, and thence by railroad and steamers to Montreal.

The trains of the Hudson and Berkshire railroad

The trains of the Hudson and Berkshire railroad connect at Chatham and State Line.

The Housatonic railroad connects at State Line.
The trains of the Connecticut River railroad connect at Springfield, and passengers may proceed without delay to Northampton, and thence by stage to Greenfield, Brattleboro, Bellows Falls, Hanover,

Stages leave West Brookfield for Ware, Endfield, New Baintree and Hardwick; also leave Palmer, for Three Rivers, Belchertown, Amherst, Ware and Monson; Pittsfield for North and South Adams,

Monson; Phusieri for North and Williamstown, Lebanon Springs, etc.
Merchandize trains run daily (Sundays excepted)
between Boston, Albany, Troy, Hudson, Northampton, Hartford, etc.

ton, Hartford, etc.

For further information apply to C. A. Read, agent, 27 State street, Boston, or to S. Witt, agent, Albany.

JAMES BARNES,

Superintent and Engineer. Western Railroad Office, Springfield, April 1, 1846.

March ..... 9,014 58 7,782 27 17,796 85

Whole am'nt since Nov. 30, 1845,...21,202 42 29,432 90 50,635 82 JOHN S. CASH, Collector.

RAILROAD IRON.—The subscriber having taken contrats for all the Railroad Iron he can manufacture at his Iron Works at Trenton, uncan manufacture at his Iron Works at Trenton, until July next, will gladly receive orders for any quantity to be delivered after that time, not exceeding thirty tons per day. Also has on hand and will make to order Bar Iron, Braziers' Rods, Wire Rods and Iron Wires of all sizes, warranted of the best quality. Also manufactures and has on hand Refined American Isinglass, warranted equal in strength to the Russian. Also on hand a constant supply of Glue, Neats' Oil, &c. &c.

PETER COOPER, 17 Burling Slip.
New York, January 23d, 1846.

1y 10

C. J. F. BINNEY,
CENERAL COMMISSION MERCHANT
and Agent for Coal, and also Iron Manufactures, etc.

No. 1 CITY WHARF, Boston. Advances made on Consignments. Refer to Amos Binney, Boston. Grant & Stone, Brown, Earl & Erringer, Philadelphia. Weld & Seaver, Baltimore.

CRIBNER'S ENGINEERS' AND MEchanics' Companion. For sale at this office.

ARD OIL FOR MACHINERY, ETC .-Winter pressed, cleansed from gum, and manufactured expressly for engines and machinery of all kinds, railroads, steamboats, woollen and other manufactures, and for burning in any lamp without clogging the wick. Engineers of railroads and others who have used this oil, and to whom reference are he made give it preference over the best pressure. can be made, give it preference over the best sperm for its durability, and not requiring to be cleaned off like that, and costing about two-thirds the price. For sale by the barrel, and samples can be sent for trial, by addressing C. J. F. BINNEY,

Agent for the Manufacture 11 eop 1m Boston, Mass.



KITE'S PATENT SAFETY BEAM.

M ESSRS. EDITORS.-is devoted to the benefit of the public in general I feel desirous to communicate to you for publication the following circumstance of no inconsiderable importance, which oc-curred some few days since on the Philadel-phia, Wilmington and Baltimore railroad.

December 8, 1845.

On the passage of the evening train of cars from Philadelphia to this city, an axle of our large 8 wheelel passenger car was bro-ken, but from the parcon ticular plan of the struction, the acciden. was entirely unknown to any of the passeugers, or, in fact, to the conductor himself, until the train, (as was supposed from some circumstances attending the case,) had pass ed several miles in advance of the place where the accident occurred, whereas had the car been constructed on the common plan the same kind of acci-

dent would unavoidably have much injured it, perhaps thrown the whole train off the track, and seriously injured, if not killed many of the passengers. Wilmington, Del., Sept. 28, 1840.

In short, we consider Mr. Kite's invention as completely successful in securing the safety of property and lives in railroad travelling, and should be used on all railroads in the country.

JOHN FRAZER, Agent,

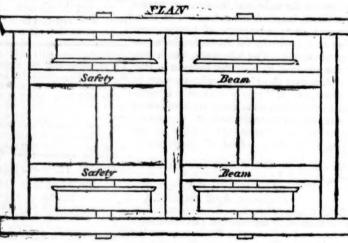
GEORGE CRAIG, Superintendant,

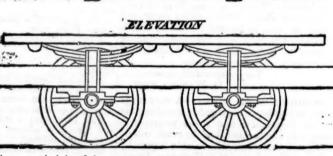
The model of the above improvement is to be seen at the New Jersey railroad and transportation in the country.

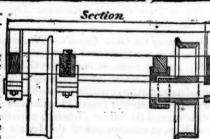
JAMES ELLIOTT, Sup. Motive Power,

W. L. ASHMEAD, Agent.

The model of the above improvement is to be seen at the New Jersey railroad and transportation in the country.







as England, where the subscriber obtained a patently are found superior to any ever offered in market.

Railroad companies may be supplied with Spikes having countersink heads suitable to holes in iron rails, to any amount and on short notice. Almost all the railroads now in progress in the United States are fastened with Spikes made at the above named factory—for which purpose they are found invaluable, as their adhesion is more than double any common spikes made by the hammer.

All orders directed to the Agent, Troy, N. York, all orders directed to the Agent, Troy, N. York, will be punctually attended to.

HENRY BURDEN, Agent.

Spikes are kept for sale, at Factory Prices, by I. & J. Townsend, Albany, and the principal from merchants in Albany and Troy; J. I. Brower, 222 Water St., New York; A. M. Jones, Philadelphia; T. Janviers, Baltimore; Degrand & Smith, Beston.

\*\*\* Railroad Companies would do well to forward their orders as early as practicable, as the subscriber is desirous of extending the manufacturing so as keep pace with the daily increasing demand.

\*\*\* The letters in the figures refer to the article given in the Journal of June, 1844.

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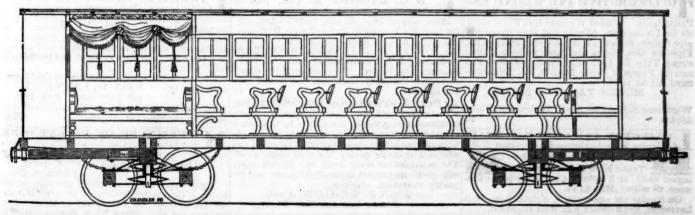


BENTLEY'S PATENT TUBULAR STEAM BOILER. The above named Boiler is similar in principle to the Locomotive boilers in use on our Railroads. This particular method was invented by Charles W. Bentley, of Baltimore, Md., who has obtained a patent for the same from the Patent Office of the United States, under date of September 1st, 1843—and they are now already in successful operation in several of our larger Hotels and Prisons, for cooking, washing, etc.; for Bath houses, Hatters, Silk, Cotton and Woollen Dyers, Morocco dressers, Soap boilers, Tallow chandlers, Pork butchers, Glue makers, Sugar refiners, Farmers, Distillers, Cotton and Woollen mills, Warming Buildings, and for Propelling Power, etc., etc.; and thus far have given the most entire satisfaction, may be had of D. K. MINOR, 23 Chambers st. New York.

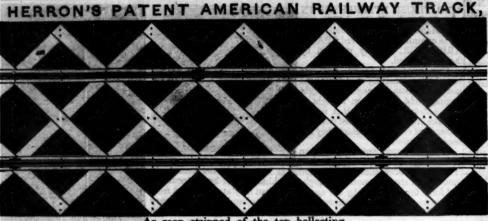
The article is complete in itself, occupies but little space, is perfectly portable, and requires no brick work, not even to stand upon. It is valuable not only in the saving of time and labor, but in the economy of fuel, as it has been ascertained by accurate measurement, that the saving in that article is fully two-thirds over other methods heretofore in use. They are now for the first time introduced into New York and Boston by the subscriber, who has the exclusive right for the New England states, New York and New Jersey, and are manufactured by

CURTIS & RANDALL, Boston; and by FORCE, GREEN & CO. New York.

# DAVENPORT & BRIDGES' CAR WORKS.



DAVENPORT & BRIDGES CONTINUE TO MANUFACTURE TO ORDER, AT THEIR WORKS, IN CAMBRIDGEPORT, MASS. Passenger and Freight Cars of every description, and of the most improved pattern. They also furnish Snow Ploughs and Chilled Wheels of any pattern and size. Forged Axles, Springs, Boxes and Bolts for Cars at the lowest prices. All orders punctually executed and forwarded to any part of the country Our Works are within fifteen minutes ride from State street, Boston—coaches pass every fifteen minutes.



As seen stripped of the top ballasting

HERRON'S IMPROVEMENTS IN RAIL— 60 and 70 lbs. rails laid in the usual way. The propri-etors of a road, furnishing approved materials in the ing in the working expenses, and maintenance of rail-first instance, the undersigned will construct the track on way Superstructure effect a large aggregate saving in the working expenses, and maintenance of railways, compared with the best tracks in use. This saving is effected—1st, Directly by the amount of the increased load that will be hauled by a locomotive, owing to the superior evenness of surface, of line and of joint. This gain alone may amount to 20 per cent. on the usual load of an engine.—2d, In consequence of the thorough combination, bracing, and large bearing surface of this track, it will be maintained in a better condition than any other track in use, at about one-third the expense. track, it will be maintained in a better condition than any other track in use, at about one-third the expense.—
3d, As action and reaction are equal, a corresponding saving of about two-thirds will be effected in the wear and tear of the engines and ears, by the even surface and elastic structure of the track.—4th, The great security to life, and less liability to accident or damage, should the engine or cars be thrown off the rails.—5th, The absence life, and less liability to accident or damage, should the engine or cars be thrown off the rails.—5th, The absence of jar and vibration, that shake down retaining walls, embankments and bridges.—6th, The great advantage of the high speed that may be safely attained, with ease of motion, reduction of noise, and consequently increased comfort to the traveller.—7th, The really permanent and perfect character of the Way, insuring regularity of transit. To which may be added the great increase of travel, that would be induced by the foregoing qualities to augment the revenue of the railroad.

The cost of the Patent track will depend on the quan-

The cost of the Patent track will depend on the quantity and cost of iron and other materials; but it will not exceed, even including the preservation of the timber, the average cost of the tracks on our principal railroads. Generally, the timber structure, fastenings and workmanship, exclusive of the cost of the iron rails, will be charged at one mill per ton; over the latter, manship, exclusive of the cost of the iron rails, will be and not exceeding 300,000 tons, nine-tenths of a mill, from \$2,300 to \$4,000 per mile. On this structure, rails of from 40 to 50 lbs. per yard, will be equa! in effect to

his plan in the most perfect manner, with recent im-provements, for one thonsand dollars per mile. And he will farther contract to maintain said track for the periwill farther contract to maintain said track for the period of ten years; furnishing such preserved timber and iron fastenings as may be required, and keeping said track in perfect adjustment, under any trade not exceeding 100,000 tons per annum, or its equivalent in passenger transportrtion, tor Two hundred dollars per mile per annum.\* To insure the faithful performance of this contract, he will pledge one-fourth) he cost of construction, with the accruing interest vereon, regularly vested, until the completion of the contract. So that a vested, until the completion of the co. ract. So that a company, by securing payment to the un. arsigned at the specified period, will have only \$750 per mile to pay for speciment period, which are they say for the workmanship on the track, without any charg 'being made for the use of the patent, the subsequent p? ments, for maintenance of way, and amount with d, being made from the large margin of profits that will result from its use.

JAMES HERRON.

Civil Engineer and Palentee.

No. 277 South Tenth St., Philadelphia.

\* A general average of the repairs done on six of the most successful railroads in this country, for a period of from six to eight years' use has been found to exceed \$625 per mile per annum, exclusive of renewal of rails. But few roads in this country carry as much as 100,000 tons per annum. When a road exceeds that quantity, the repairs due to the additional tonnage, up to 200,000

R. CASEY, CIVIL ENGINEER, NO. 23 Chambers street, New York, will make survey estimates of cost and reports for railways, canals, roads, docks, wharves, dams and bridges of every description. He will also act as agent for the sale of machinery, and of patent rights for improvements to public works.

THE AMERICAN RAILROAD
JOURNAL is the only periodical having a
general circulation throughout the Union, in
which all matters connected with public
works can be brought to the notice of all persons in any way interested in these undertakings. Hence it offers peculiar advantages
for advertising times of departure, rates of
fare and freight, improvements in machinery,
materials, as iron, timber, stone, cement, etc.
It is also the best medium for advertising contracts, and placing the medits of new pade tracts, and placing the merits of new under-takings fairly before the public.

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TROY IRON AND NAIL FACTORY,
H. Burden, Agent. (See Adv.)
ROGERS, KETCHUM AND GROSVE-

NORRIS, BROTHERS, Philadelphia Pa. (See adv.)

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KITE'S Patent Safety Beam. (See Adv.) FRENCH & BAIRD, Philadelphia, Pa.

FRENCH & BARLE, (See Adv.)

NEWCASTLE MANUFACTURING COMPANY, Newcastle, Del. (See Adv.)

ROSS WINANS, Baltimore, Md.

CYRUS ALGER & Co., South Boston CYRUS ALGER & Co., South Boston Iron Company.

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phia, Pa. THOMAS & EDMUND GEORGE, Philadelphia. (See Adv.)

TO LOCOMOTIVE AND MARINE ENgine Boiler Builders. Pascal Iron Works, Philadelphia. Welded Wrought Iron Flues, suita-Philadelphia. Welded Wrought fron Flues, suitable for Locomotives, Marine and other Steam Engine Boilers, from 2 to 5 inches in diameter. Also, Pipes for Gas, Steam and other purposes; extra strong Tube for Hydraulic Presses; Hollow Pistons for Pumps of Steam Engines, etc. Manufactured and for sale by

MORRIS TASKER & MORRIS,

Warezouse S. E. corner 3d and Walnut Sts., Phila delphia

EXINGTON AND OHIO RAILROAD.

Trains leave Lexington for Frankfort daily, at 5 o'clock a.m., and 2 p.m.

Trains leave Frankfort for Lexington daily, at 8 o'clock a.m. and 2 p.m. Distance, 28 miles. Fare \$1.25.

On Sunday but one train, 5 o'clock a.m. from Lexington, and 2 o'clock p.m. from Frankfort.

The winter arrangement (after 15th September to 15th March) is 6 o'clock a.m. from Lexington, and 9 a.m. from Frankfort, other hours as above. 35 ly

CYRUS ALGER & CO., South Boston Iron

& G. RALSTON & CO., NO. 4
South Front St., Philadelphia, Pa.
Have now on hand, for sale, Railroad Iron, viz:

180 tons  $2\frac{1}{2} \times \frac{1}{4}$  inch Flat Punched Rails, 20 ft. long. 25 "  $2\frac{1}{4} \times \frac{1}{4}$  " Flange Iron Rails.

75 " 1 x \frac{1}{4} " Flat Punched Bars for Drafts in Mines. A full assortment of Railroad Spikes, Boat and Ship Spikes, They are prepared to execute orders for every description of Railroad Iron and Fixtures. and Fixtures

S PRING STEEL FOR LOCOMOTIVES Tenders and Cars. The Subscriber is engagen in manufacturing Spring Steel from 14 to 6 inches in width, and of any thickness required: large quantities are yearly furnished for railroad purposes, and wherever used, its quality has been approved of. The establishment being large, can execute orders with great arountitude at reasonable writer, and the with great promptitude, at reasonable prices, and the quality warranted. Address

JOAN F. WINSLOW, Agent,

Albany Iron and Nail Works,

RAILROAD IRON.—THE MARY-LAND AND NEW YORK IRON AND Coal Company are now prepared to make contracts for Rails of all kinds. Address the Subscriber, at Jennon's Run, Alleghany County, Maryland. WILLIAM YOUNG,

AWRENCE'S ROSENDALE HYDRA-ulic Cement. This cement is warranted equal to any manufactured in this country, and has been pronounced superior to Francis' "Roman." Its value tor Aqueducts, Locks, Bridges, Flooms and all Masonry exposed to dampness, is well known, as it sets immediately under water, and increases in solidity for years.

For sale in lots to suit purchasers, in tight paper-d barrels, by JOHN W. LAWRENCE, 142 Front street, New York. ed barrels, by

Orders for the above will be received and promptly attended to at this office.

MANUFACTURE OF PATENT WIRE
Rope and Cables for Inclined Planes, Standing Ship Rigging, Mines, Cranes, Tillers etc., by
JOHN A. ROEBLING, Civil Engineer, Pittsburgh, Pa.

These Ropes are in successful operation on the planes of the Portage Railroad in Pennsylvania, on the Public Slips, on Ferries and in Mines. The first rope put upon Plane No. 3, Portage Railrord, has now run 4 seasons, and is still in good condition.

DACK VOLUMES OF THE RAILROAD
JOURNAL for sale at the office, No. 23